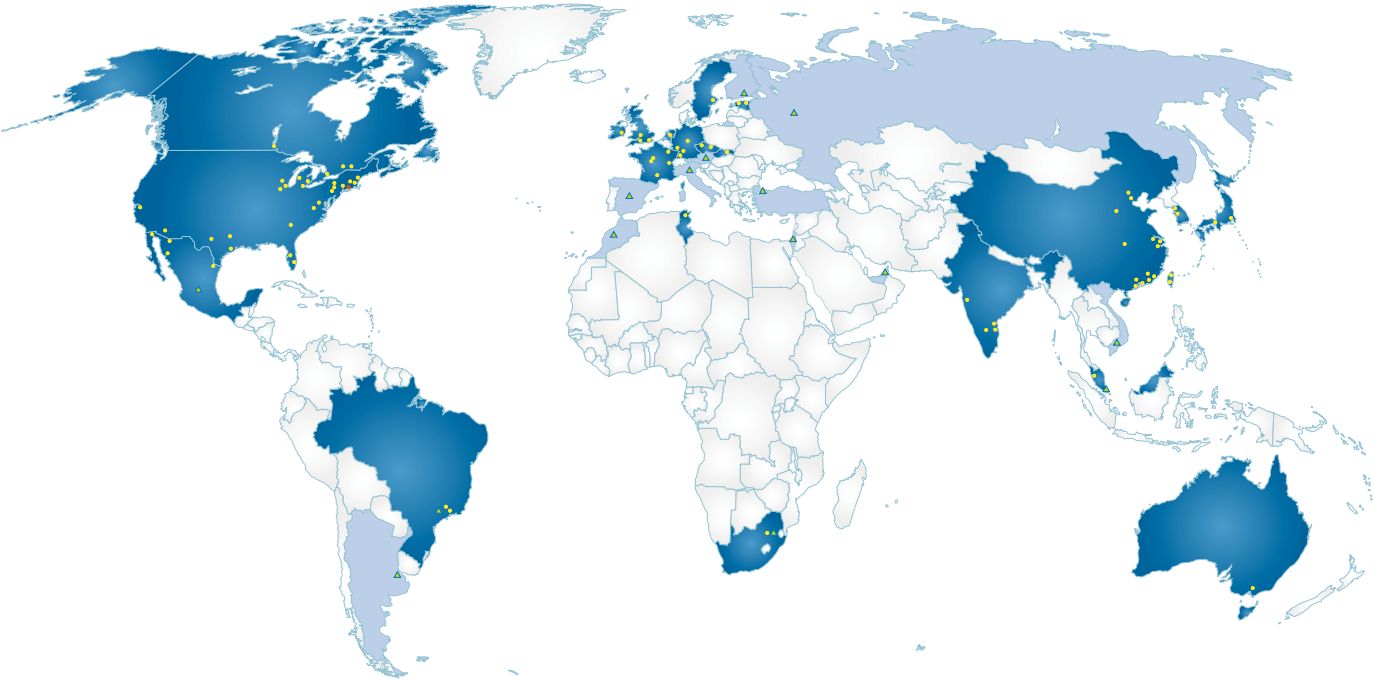




## CATALOGUE



# Amphenol Group | Global Presence



**Sales, R&D, and  
Manufacturing on  
6 continents**

79% of workforce in  
low-cost countries

- = MANUFACTURING OPERATIONS
- ▲ = SALES OFFICES
- ★ = HEADQUARTERS

## AMERICAS

UNITED STATES  
CANADA  
MEXICO  
BRAZIL  
ARGENTINA

## EUROPE

FRANCE  
GERMANY  
UNITED KINGDOM  
IRELAND  
THE NETHERLANDS  
CZECH REPUBLIC  
ESTONIA  
SLOVAKIA  
ITALY

SPAIN  
SWEDEN  
NORWAY  
RUSSIA  
TURKEY  
SAUDI ARABIA  
FINLAND  
AUSTRIA

## MIDDLE EAST & AFRICA

TUNISIA  
SOUTH AFRICA  
UNITED ARAB EMIRATES  
ISRAEL

## ASIA & PACIFIC

TAIWAN  
CHINA  
HONG KONG  
JAPAN  
KOREA  
PHILIPPINES  
MALAYSIA  
SINGAPORE  
INDIA  
AUSTRALIA  
VIETNAM

# Amphenol LTW | Global Service



**We listen to your needs.**

**Amphenol LTW Technology Co., Ltd. (Headquarter)**

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Fax: : +86-512-5761-0515

**For further information, please contact :**

Sales & Marketing Department | Email : [sales@ltw-tech.com](mailto:sales@ltw-tech.com)



## Our Mission

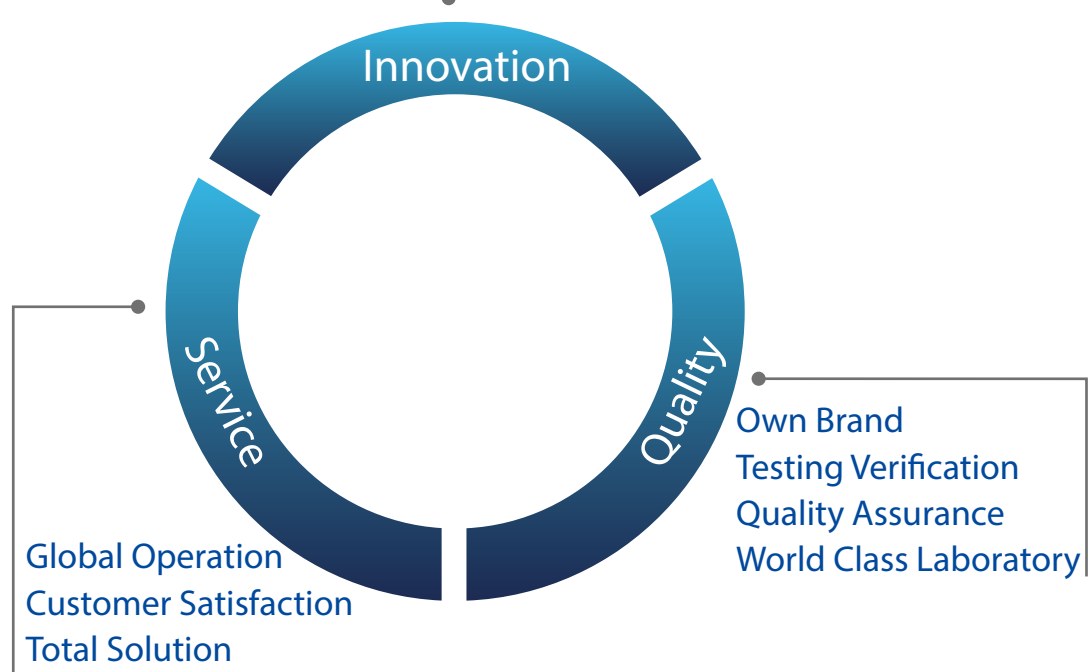
Amphenol LTW is fully committed to contributing to a safer and greener environment toward an open and friendlier world. ALTW actively and proactively become the interconnects of choice for technologically advanced products with purposes such as:

- Generating power and energies from renewable sources
- Protecting, conserving, saving and better managing resources
- Warning and preventing natural disasters such earthquakes, tsunamis, landslides, flooding...
- Lighting up buildings, residences, streets and factories at lowest possible costs in the most efficiently and environmental friendly ways
- Detecting, monitoring and managing goods and people for seamless flow and exchanges around the world
- Enabling higher speed and broadband communications and telecommunications
- Producing higher yield of crops and maximizing the use of scarce "agricultural" lands
- Accelerating the proliferation of organic crops
- Delivering safe and quality food
- Preventing shortage of food and enabling the production of sufficient food
- Enabling higher productivities in farms while enhancing qualities of produces
- Allowing higher productivities and efficiencies in factories and industries
- Facilitating automation and reducing labor costs and risks
- Making biotechnologies a reality and common place in tomorrow's world
- Ensuring life-saving products available whenever and wherever they are much needed
- Facilitating the "rugged revolution" in mobile world

Amphenol LTW is the innovator and solution provider for products to be used harsh and rugged environments.

Create Company's Profile and  
New Industry Orientation by  
Innovation & Differentiation

Research Innovation  
R&D Management  
Technology Foundation



## Our History

LTW Technology Co., Ltd, established in March 1993, is the innovator and solution provider for all products that are to be used in harsh and rugged environments indoor or outdoor.

In April 2010, Amphenol Corp (NYSE: APH) acquired LTW Technology ("ALTW") which become Amphenol LTW Technology Co., Ltd.

Amphenol LTW Technology is the leader in rugged and harsh environment interconnects with largest array of I/O and products ranging from IP65 to IP69K. ALTW continuously provides innovative products and solutions for an ever demanding environment with patents covering China, Taiwan, Japan, South Korea, Europe and North America, etc...

Together with our customers, ALTW participate and contribute to a better world, greener and safer environment.

LTW®



1993

Established

2000

Opened Kun Shan  
Zhrengri  
(KSZ)Electronics  
in Kunshan, China



2002

LTW moved to  
Shinjuang  
City,Taipei.

2004

KSZ expanded plant  
to 17,000 sqm.



2006

Established 2nd  
Factory in Taipei  
with CNC  
Automatic Lathe &  
Automation Center

### Amphenol LTW



2008

Taiwan Small &  
Medium Enterprise  
Innovation Award

Innovation Research  
Award

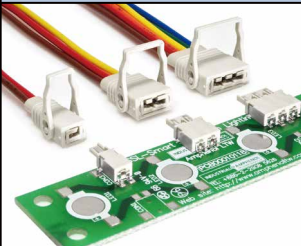
2010

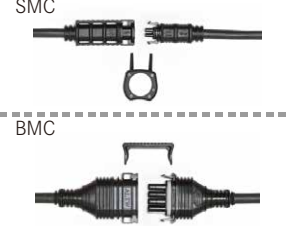
LTW was acquired by  
Amphenol Group in  
April of 2010

# Shortcut by Product Series

| Circular Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Power Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | M Series Sensor Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | USB Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <ul style="list-style-type: none"> <li>Screw Threaded Type, Lock Bayonet Type or Push Lock Type</li> <li>Receptacle, Receptacle with cable, Overmolded With Cable &amp; Field Installable available</li> <li>Options from 2 to 31 contacts, 2A to 20A</li> <li>Various sizes, over 1000 items, plastic and metal</li> <li>UV Resistant</li> <li>IP65/66/67/68 waterproof mated or unmated</li> <li>Operating temperature               <ul style="list-style-type: none"> <li>Field installable: -20°C ~ 105°C</li> <li>Receptacle: -40°C ~ 105°C</li> <li>Receptacle with cable: -20°C ~ 80°C</li> <li>Overmolded with Cable: -20°C ~ 80°C</li> </ul> </li> <li>Customizations are possible</li> <li>Hybrid available</li> </ul>  <p>P 1-1</p> |  <ul style="list-style-type: none"> <li>Screw Threaded or Lock Bayonet Type (2 points &amp; 3 points)</li> <li>Receptacle, Overmolded With Cable &amp; Field Installable available</li> <li>Options from 2 to 7 contacts, 8A to 30A</li> <li>Over 110 plastic items</li> <li>UV Resistant</li> <li>Operating temperature               <ul style="list-style-type: none"> <li>Overmolded with Cable: -20°C ~ 80°C</li> <li>Receptacle: -40°C ~ 105°C</li> <li>Field installable: -40°C ~ 105°C</li> </ul> </li> <li>IP67/68 waterproof mated or unmated</li> <li>Customizations are possible</li> <li>Hybrid available</li> <li>Safety locking available (25A &amp; 30A)</li> <li>Touch Safe (IP2X) available (25A &amp; 30A)</li> </ul>  <p>P 2-1</p> |  <ul style="list-style-type: none"> <li>Available in M8 (3P~5P &amp; 8P); M12 (3P ~ 12 in A, B, D &amp; X Codes); Mini 7/8" 5P</li> <li>Compact and rugged design available in IP67/IP68 waterproof</li> <li>Available in Stamped, Screw-In, PCB and Solder Contacts</li> <li>Receptacle (M12 90° PCB), Field Installables &amp; Molded With Cable available</li> <li>Meets industry standards (IEC, NMEA2000, DeviceNet, EtherNet I/P, Profibus &amp; ProfiNet)</li> <li>Operating temperature               <ul style="list-style-type: none"> <li>Field installable: -40°C ~ 105°C</li> <li>Receptacle: -40°C ~ 105°C</li> <li>Overmolded with Cable                   <ul style="list-style-type: none"> <li>PVC Cable: -20°C~80°C</li> <li>PU Cable: -20°C~85°C</li> </ul> </li> </ul> </li> <li>Hexagonal-Shaped Diecasted Screw Nuts for Cable Assy for easier Tool access</li> <li>PVC, PUR Jackets available for cables (Sun, Oil Resistant &amp; Flame rated)</li> <li>UL/CSA Approval</li> <li>Hybrid Available Upon Request</li> </ul>  <p>P 3-1</p> |  <ul style="list-style-type: none"> <li>Screw Threaded or Lock Bayonet Type</li> <li>USB A, USB B and Mini USB</li> <li>IP67/IP68 mated and unmated waterproof</li> <li>Receptacle, Overmolded With Cable available</li> <li>UV Resistant</li> <li>Operating temperature               <ul style="list-style-type: none"> <li>Field installable: -20°C ~ 80°C</li> <li>Overmolded with Cable: -20°C ~ 80°C</li> <li>Receptacle                   <ul style="list-style-type: none"> <li>Nylon+GF: -40°C ~ 105°C</li> <li>M-PPE: -40°C ~ 105°C</li> <li>ABS: -20°C ~ 80°C</li> </ul> </li> <li>Receptacle with cable                   <ul style="list-style-type: none"> <li>Nylon+GF: -20°C ~ 105°C</li> <li>ABS: -20°C ~ 80°C</li> </ul> </li> </ul> </li> <li>Easy &amp; simple connection structure</li> <li>PnP – plug and play</li> <li>Master/Slave framework</li> </ul>  <p>P 4-1</p> |
| * Mini (A) - Size<br>* Standard (B) - Size<br>* Middle (C) - Size<br>* Large (D) - Size<br>* Macro (E) - Size<br>* Others - Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | * 8A<br>* 12A<br>* 16A<br>* 20A<br>* 25A<br>* 30A<br>* 20A+2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | * M8<br>* M10.5<br>* M12<br>* Heavy Duty Shielded<br>* M23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | * USB 3.0 A Type<br>* USB 2.0 A Type<br>* USB 2.0 B Type<br>* Mini USB 2.0 B Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| IEEE 1394 Connector                                                                                                                                                                                                                                                                                                                                                                                                                            | D-SUB Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DVI Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RJ Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• Receptacle, Overmolded With Cable &amp; Field Installable available</li> <li>• Screw Threaded Type</li> <li>• 0.5A</li> <li>• UV Resistant</li> <li>• Operating temperature               <ul style="list-style-type: none"> <li>⊙ Field installable: -20°C ~ 80°C</li> <li>⊙ Receptacle: -20°C ~ 80°C</li> <li>⊙ Overmolded with Cable: -20°C~80°C</li> </ul> </li> <li>• IP67/68 Unmated</li> </ul> | <ul style="list-style-type: none"> <li>• Standard D-Sub (9/15/25/37 /50 contacts), High Density D-Sub (15/26/44/62/78 contacts) and Mixed Options Available</li> <li>• Receptacle, Overmolded With Cable &amp; Field Installable available</li> <li>• Various Connection types, such as hand solder, wire wrap, straight and angled PCB, with and without boardlock, and flat cables</li> <li>• High Reliability for Harsh Environment</li> <li>• IP67/IP68 waterproof</li> <li>• Special Latches instead of thumb screws available</li> <li>• Operating temperature               <ul style="list-style-type: none"> <li>⊙ Field installable: -20°C ~ 105°C</li> <li>⊙ Overmolded with Cable: -20°C ~ 80°C</li> <li>⊙ Receptacle: -20°C~105°C</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• DVI-D Single Link (DDS), DVI-I Single Link (DIS), DVI-D Dual Link (DDD) and DVI-I Dual Link (DID) available</li> <li>• Receptacle and Overmolded With Cable available</li> <li>• Screw Threaded Type</li> <li>• 0.5A</li> <li>• 19/23/25/29 contacts available</li> <li>• UV Resistant</li> <li>• Operating temperature               <ul style="list-style-type: none"> <li>⊙ Overmolded with Cable: -20°C ~ 80°C</li> <li>⊙ Receptacle: -20°C~105°C</li> </ul> </li> <li>• IP67/68 waterproof</li> </ul> | <ul style="list-style-type: none"> <li>• Screw Threaded or lock Bayonet Type</li> <li>• Receptacle, Overmolded With Cable &amp; Field Installable available</li> <li>• Shielded &amp; Unshielded versions</li> <li>• Fast connectivity Networking in Harsh environments</li> <li>• IDC, RJ Jack in 180 &amp; 90 deg., Terminal Block and Cable terminated</li> <li>• Meets industry standards (ODVA, ProfiNet)</li> <li>• UV Resistant</li> <li>• Operating temperature               <ul style="list-style-type: none"> <li>⊙ Overmolded with Cable: -20°C ~ 80°C</li> <li>⊙ Receptacle: -40°C~105°C</li> </ul> </li> <li>• IP67/IP68 mated and unmated</li> </ul> |
|  <p>P 5-1</p>                                                                                                                                                                                                                                                                                                                                               |  <p>P 6-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  <p>P 7-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  <p>P 8-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| * IEEE 1394B                                                                                                                                                                                                                                                                                                                                                                                                                                   | * Standard<br>* High Density                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | * DVI-Single Link<br>* DVI-Dual Link<br>* DVI-D Single Link<br>* DVI-D Dual Link                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | * Cat. 5e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| SSL Solution Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | LED Indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HDMI Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sata Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|  <ul style="list-style-type: none"> <li>• For B-to-B, W-to-B, W-to-W</li> <li>• Available in 1P, 2P, 4P and 6P</li> <li>• Standard or IP67</li> <li>• SMT Board Connector for PCB: FR4, MC, or Ceramic</li> <li>• With and without Mounting boardlock</li> <li>• With or Without Lock or Latch</li> <li>• Board Connectors in Right Angle, Straight, or Inverted</li> <li>• Horizontal or Vertical Connection or Disconnection</li> <li>• Overmolded Cable Straight or Right Angle</li> <li>• Operating temperature <ul style="list-style-type: none"> <li>◉ Receptacle: -40°C ~ 100°C</li> </ul> </li> <li>• Natural white color for all connector housings and over-molding</li> <li>• UL recognized (UL approved upon request)</li> <li>• Lead Free and RoHS Compliant</li> </ul>  <p>P 9-1</p> |  <ul style="list-style-type: none"> <li>• LED lights for your device (Receptacle only)</li> <li>• Light color: red, blue, green, white, yellow and red/green</li> <li>• Plastic LED (Ø3mm) or metal LED (Ø3mm and Ø5mm)</li> <li>• Operating temperature <ul style="list-style-type: none"> <li>◉ Metal: -20°C ~ 105°C</li> <li>◉ Plastic: -20°C ~ 85°C</li> </ul> </li> <li>• IP67 Unmated</li> </ul>  <p>P 10-1</p> |  <ul style="list-style-type: none"> <li>• Receptacle (Jack) and Overmolded With Cable (Plug) available</li> <li>• Latch type for 90° PCB</li> <li>• 0.2A</li> <li>• Maximum cable length 5M</li> <li>• UV Resistant</li> <li>• Operating temperature <ul style="list-style-type: none"> <li>◉ Receptacle: -20°C ~ 80°C</li> <li>◉ Overmolded with Cable: -20°C ~ 80°C</li> </ul> </li> <li>• IP67 Unmated</li> </ul>  <p>P 11-1</p> |  <ul style="list-style-type: none"> <li>• Snap in with latch: insertion and extraction are easy and quick</li> <li>• Overmolded With Cable and PCB type (Socket) for SMD or DIP</li> <li>• Harpoon board lock or flat board lock</li> <li>• 1.6, 2.6, 3.2mm mounting board-lock available</li> <li>• SATA 2.6</li> <li>• Available contacts : 7P</li> <li>• Current Capacity : 1.5A</li> <li>• Over-molded Wires Size : #26</li> <li>• 15V DC</li> <li>• Black color for all connector housings and over-molding</li> <li>• UL recognized materials</li> <li>• Lead Free and RoHS Compliant</li> <li>• PCB thickness 1.6 mm</li> <li>• IEC 60529 / IP67 mated</li> <li>• Sata III available (upon request)</li> <li>• Operating temperature <ul style="list-style-type: none"> <li>◉ Receptacle: -20°C ~ 80°C</li> <li>◉ Overmolded with Cable: -20°C ~ 80°C</li> </ul> </li> </ul>  <p>P 12-1</p> |
| * SSL-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | * M8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | * Plug<br>* Jack                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | * PCB Type<br>* Overmolded Plug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Fiber Optic Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NMEA 2000 Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PV AC Connectors / T-Junction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                               |
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| <ul style="list-style-type: none"> <li>• Receptacle (Jack) &amp; Field Installable (Plug) available</li> <li>• For SC &amp; LC types</li> <li>• Lock Bayonet Type (2 points &amp; 3 points)</li> <li>• UV Resistant</li> <li>• Operating temperature <ul style="list-style-type: none"> <li>◉ Field installable: -40°C ~ 105°C</li> <li>◉ Receptacle: -40°C ~ 105°C</li> </ul> </li> <li>• IP67 mated</li> </ul> <div data-bbox="107 1460 228 1587"> </div> <div data-bbox="325 1564 385 1587">P 13-1</div> | <ul style="list-style-type: none"> <li>• Available in Micro Style "M12" 5P Conn &amp; Mini Style "7/8" 5P Conn for drop and trunk lines respectively</li> <li>• Compatible with Industrial Bus Systems (Devicenet &amp; Profibus)</li> <li>• Compact and rugged design available in IP67/IP68 unmated waterproof to withstand harsh marine environments</li> <li>• Available in Stamped, screw-in, PCB and solder contacts</li> <li>• Panel mounts (M12 90° PCB), Field Installable, Tee Adapters, Molded With Cable &amp; Junction Boxes available</li> <li>• Operating temperature <ul style="list-style-type: none"> <li>◉ Receptacle: -40°C ~ 85°C</li> <li>◉ Overmolded with Cable: -20°C ~ 80°C</li> <li>◉ Field installable <ul style="list-style-type: none"> <li>Nylon+GF: -40°C~105°C</li> <li>PU: -20°C~85°C</li> </ul> </li> </ul> </li> <li>• Corrosion &amp; Vibration Resistant</li> <li>• Thin &amp; Thick PVC Cables available (Sun, Oil Resistant &amp; Flame rated)</li> <li>• Various cable lengths to match installation requirements</li> <li>• NMEA 2000® approved</li> </ul> <div data-bbox="414 1460 535 1587"> </div> <div data-bbox="635 1564 695 1587">P 14-1</div> | <p>VTC (T-Junction / SMC)</p> <ul style="list-style-type: none"> <li>• 3 or 4 Contacts</li> <li>• 300 V/AC, 5A Drop, 30A Trunk</li> <li>• IP 67 waterproof</li> <li>• UV Resistant</li> <li>• Operating temperature : <ul style="list-style-type: none"> <li>Ambient: -40°C ~ +85°C</li> <li>Upon Limited Temperature:+105°C</li> </ul> </li> <li>• Intertek approved to UL6703A &amp; UL9703</li> <li>• Uninterrupted cable - Lower power drop then conventional cabling systems</li> <li>• Various configurations of pitch and T Connector Quantity</li> <li>• Cable End-Cap and Cable Joiner available</li> <li>• Ease of installation and service</li> </ul> <div data-bbox="728 1460 849 1587"> </div> <div data-bbox="949 1564 1009 1587">P 15-1</div> | <p>BMC</p> <ul style="list-style-type: none"> <li>• 3 &amp; 4 Contacts</li> <li>• 300V AC, 17A</li> <li>• Cable TC-ER, UV resistant</li> <li>• Operating temperature : -40°C ~ 105°C</li> <li>• Safety Locking</li> <li>• ETL approved according to UL 6703A</li> <li>• Overmolded with cable, plug-nplay</li> <li>• IP 67 waterproof</li> <li>• Touch Safe (IP2X)</li> </ul> |
| <p>* LC Type</p> <p>* SC Type</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>* Mini</p> <p>* Micro</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>* T-Junction (VTC)</p> <p>* SMC</p> <p>* BMC</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>* T-Junction (VTC)</p> <p>* SMC</p> <p>* BMC</p>                                                                                                                                                                                                                                                                                                                           |

| Cable Joiner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cable Gland - Anti-UV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Vent Connector                                                                                                                                                                                                                                                                                                                                                                | RBL Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>Simple and reliable cable interconnections</li> <li>For various cable OD and wire sizes</li> <li>Cable OD range 6mm~16mm</li> <li>Wire range 10AWG~22AWG</li> <li>Standard crimping butt terminals or screw terminal blocks</li> <li>UV Resistant</li> <li>Operating temperature <ul style="list-style-type: none"> <li>Field installable</li> <li>PPE: -40°C~105°C</li> <li>Nylon: -40°C~105°C</li> </ul> </li> <li>IP67 waterproof</li> <li>Safety locking available</li> </ul> | <ul style="list-style-type: none"> <li>Various options available, from 1"-20UNEF, M8, M12, M16, M20, M25, M32, M40, PG7, PG9, PG11, PG13.5, PG16 to PG29</li> <li>Easily find suitable items for different cable OD</li> <li>Fit into panel thickness from max 3.0 mm to max 9.0 mm</li> <li>Product length (with strain relief) from 60.0mm to 96.0mm</li> <li>Product length (without strain relief) from 22.0 mm to 60.0mm</li> <li>UV Resistant</li> <li>Operating temperature <ul style="list-style-type: none"> <li>Receptacle: -20°C~105°C</li> </ul> </li> <li>IP67 waterproof</li> </ul> | <ul style="list-style-type: none"> <li>M12 . M8 available upon request</li> <li>Air permeability: 12 sec/100 cm3 or 10 sec/100 cm3</li> <li>Water entry pressure: 100kPa</li> <li>Panel thickness max 6.5 mm</li> <li>UV Resistant</li> <li>Operating temperature <ul style="list-style-type: none"> <li>Receptacle: -20°C~105°C</li> </ul> </li> <li>IP67 unmated</li> </ul> | <ul style="list-style-type: none"> <li>Snap-in with Latch Type</li> <li>Receptacle, Overmolded With Cable &amp; Field Installable available</li> <li>6 contacts</li> <li>5A</li> <li>UV Resistant</li> <li>IP67 waterproof mated or unmated</li> <li>Operating temperature <ul style="list-style-type: none"> <li>Overmolded with Cable: -20°C~80°C</li> <li>Field installable: -40°C~105°C</li> <li>Receptacle: -40°C~105°C</li> </ul> </li> <li>Customizations are possible</li> </ul> |
|  <p>P 16-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |  <p>P 17-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  <p>P 18-1</p>                                                                                                                                                                                                                                                                             |  <p>P 19-1</p>                                                                                                                                                                                                                                                                                                                                                                                      |
| * 6~10 mm<br>* 8~10mm<br>* 10~12mm<br>* 12~16mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | * 1"-20 * M40<br>* M8 * PG7<br>* M12 * PG9<br>* M16 * PG11<br>* M20 * PG13<br>* M25 * PG16<br>* M32 * PG29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | * M12 Vent Connector                                                                                                                                                                                                                                                                                                                                                          | * Middle Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



**X-Lok Connector**

- Push Lock Type
- Receptacle, Overmolded With Cable & Field Installable available
- 3 contacts
- 20A
- UV Resistant
- IP67 waterproof mated or unmated
- Operating temperature
  - ◉ Overmolded with Cable: -20°C~80°C
  - ◉ Field installable: -40°C~105°C
  - ◉ Receptacle: -40°C~105°C
- Customizations are possible



P 20-1

\* Middle Size

# Shortcut by Markets

## Renewable Energy

### > Photovoltaic solar (PV) : Micro Inverter, Inverter, Solar tracker

|                                        |        |                                         |         |
|----------------------------------------|--------|-----------------------------------------|---------|
| Circular Connector                     | P. 1-1 | RJ Connector                            | P. 8-1  |
| Power Connector   25A(PWH) & 30A (PWJ) | P. 2-1 | PV AC Connectors / T-Junction Connector | P. 15-1 |
| M Series Sensor Connector              | P. 3-1 | Cable Joiner                            | P. 16-1 |
| USB Connector                          | P. 4-1 |                                         |         |

\* More to know: Safely Locking & Touch Safe available

### > Concentrated solar power (CSP) : Heliostat parabolic trough

|                           |         |               |         |
|---------------------------|---------|---------------|---------|
| Circular Connector        | P. 1-1  | RJ Connector  | P. 8-1  |
| M Series Sensor Connector | P. 3-1  | RBL Connector | P. 19-1 |
| X-Lok Connector           | P. 20-1 |               |         |

\* More available: Y-Connector, T-Connectors, Distribution Boxes, T & Y-Splitters

### > Wind : Turbine

|                                       |        |                  |        |
|---------------------------------------|--------|------------------|--------|
| Power Connector   8A(PWF) & 25A (PWH) | P. 2-1 | D- SUB Connector | P. 6-1 |
| M Series Sensor Connector             | P. 3-1 | RJ Connector     | P. 8-1 |

\* More available: Y-Connectors, Distribution Boxes, T&Y Splitters

## Industrial Automation

### > Industrial robots, Industrial lifts, Communication panels, Packaging, Conveyors, Sensors, Switches

|                           |        |                  |        |
|---------------------------|--------|------------------|--------|
| M Series Sensor Connector | P. 3-1 | D- SUB Connector | P. 6-1 |
| USB Connector             | P. 4-1 | RJ Connector     | P. 8-1 |

\* More available: M12-RJ45 Ethernet Adaptor, Passive Distribution boxes, T & Y splitters

## LED

### > Outdoor Displays and Billboards, Outdoor Signs & Signage, Architectural Lighting, AV and Entertainment Systems Tunnel Lighting, General Lighting, Aircraft Cabin Lighting, Automotive Lighting, Train Wagon Lighting, Ships and Cargo Lighting, Bus Interior Lighting

|                                                      |         |                                         |         |
|------------------------------------------------------|---------|-----------------------------------------|---------|
| Circular Connector                                   | P. 1-1  | RJ Connector                            | P. 8-1  |
| Power Connector   20A(PWC), 25A(PWH) & 30A (PWJ/PWL) | P. 2-1  | PV AC Connectors / T-Junction Connector | P. 15-1 |
| M Series Sensor Connector                            | P. 3-1  | SSL Connector                           | P. 9-1  |
| RBL Connector                                        | P. 19-1 | X-Lok Connector                         | P. 20-1 |

\* More available: Hybrid Connecto

## Marine

### > Radar, Communications, Audio entertainment, Navigation system & GPS, Fish finders, Instruments / Gauges, Autopilot

|                    |        |                                         |         |
|--------------------|--------|-----------------------------------------|---------|
| Circular Connector | P. 1-1 | NMEA 2000 Connector                     | P. 14-1 |
| USB Connector      | P. 4-1 | PV AC Connectors / T-Junction Connector | P. 15-1 |
| D- SUB Connector   | P. 6-1 | Cable Joiner                            | P. 16-1 |
| RJ Connector       | P. 8-1 |                                         |         |

\* More available: Adapter, Pre-Cabling Systems & Solutions

## Broadband Wireless Access

### > Outdoor Access Points, Outdoor Bridges, Outdoor Backhaul , Outdoor Repeater, Outdoor Base Stations, Satellite Receiver and Transmitter, Antennas

|                           |        |                |         |
|---------------------------|--------|----------------|---------|
| Circular Connector        | P. 1-1 | RJ Connector   | P. 8-1  |
| M Series Sensor Connector | P. 3-1 | Cable Joiner   | P. 16-1 |
| USB Connector             | P. 4-1 | Vent Connector | P. 18-1 |
| D- SUB Connector          | P. 6-1 |                |         |

**Smart Grids / Advanced Metering Infrastructure (AMI)**> Smart meters : Water meter, Electricity meter, Gas meter

|                    |        |                                         |         |
|--------------------|--------|-----------------------------------------|---------|
| Circular Connector | P. 1-1 | PV AC Connectors / T-Junction Connector | P. 15-1 |
| Power Connector    | P. 2-1 | Cable Joiner                            | P. 16-1 |
| USB Connector      | P. 4-1 | Vent Connector                          | P. 18-1 |
| RJ Connector       | P. 8-1 |                                         |         |

**Construction Machineries / Heavy Vehicles**> Bus, Trucks, RV, Utilities vehicles, Excavator, Backhoe loader, Crane, Forklift, Bulldozer, Tractors

|                           |        |                  |         |
|---------------------------|--------|------------------|---------|
| Circular Connector        | P. 1-1 | D- SUB Connector | P. 6-1  |
| Power Connector           | P. 2-1 | RJ Connector     | P. 8-1  |
| M Series Sensor Connector | P. 3-1 | Cable Joiner     | P. 16-1 |
| USB Connector             | P. 4-1 | Vent Connector   | P. 18-1 |
| RBL Connector             | P.19-1 | X-Lok Connector  | P. 20-1 |

\* More available: T&amp;Y Connector, T&amp;Y Splitters, Hybrid Connector, Distribution box

**IP Closed-circuit Television (IP CCTV)**> Speed Dome Cameras, Outdoor Dome Cameras, Remote Video Remote Control Device, IP Traffic Control , Homeland Security Prevention and Protection Equipment, IR Sensor, Chemical & Radioactive, Detection Device, Container Security Devices

|                                              |        |                |         |
|----------------------------------------------|--------|----------------|---------|
| Circular Connector   Mini (A) & Standard (B) | P. 1-1 | RJ Connector   | P. 8-1  |
| Power Connector   8A(PWF) & 25A (PWH)        | P. 2-1 | Cable Joiner   | P. 16-1 |
| M Series Sensor Connector                    | P. 3-1 | Vent Connector | P. 18-1 |
| D- SUB Connector                             | P. 6-1 |                |         |

**Medical Devices**> Electrical beds, Wheelchair controller

|                     |              |                 |                |
|---------------------|--------------|-----------------|----------------|
| Circular Connector  | P. 1-1       | Micro-USB       | Available soon |
| Breakaway Connector | Upon request |                 |                |
| RBL Connector       | P.19-1       | X-Lok Connector | P. 20-1        |

**Hybrid Electric Vehicle (HEV) / Electric Vehicle (EV)**> Scooters, Bikes, Golf Carts, Utilities Vehicles

|                           |        |                  |         |
|---------------------------|--------|------------------|---------|
| Circular Connector        | P. 1-1 | USB Connector    | P. 4-1  |
| Power Connector           | P. 2-1 | D- SUB Connector | P. 6-1  |
| M Series Sensor Connector | P. 3-1 | RJ Connector     | P. 8-1  |
| RBL Connector             | P.19-1 | X-Lok Connector  | P. 20-1 |

\* More available: BMC Series

**MRT / Railway**> Traffic System, Sign and Lighting System, Sensor

|                                       |        |                                         |         |
|---------------------------------------|--------|-----------------------------------------|---------|
| Power Connector   8A(PWF) & 12A (PWE) | P. 2-1 | RJ Connector                            | P. 8-1  |
| M Series Sensor Connector             | P. 3-1 | PV AC Connectors / T-Junction Connector | P. 15-1 |
| USB Connector                         | P. 4-1 | Cable Joiner                            | P. 16-1 |
| D- SUB Connector                      | P. 6-1 |                                         |         |
| RBL Connector                         | P.19-1 | X-Lok Connector                         | P. 20-1 |

\* More available: BMC Series

**Testing and Measurement Equipment**

|                           |         |               |        |
|---------------------------|---------|---------------|--------|
| Circular Connector        | P. 1-1  | USB Connector | P. 4-1 |
| M Series Sensor Connector | P. 3-1  | RJ Connector  | P. 8-1 |
| X-Lok Connector           | P. 20-1 |               |        |

## Safety Detection and Warning System

### > Tsunami Warning Devices, Landslide Detection and Warning

|                           |        |                 |         |
|---------------------------|--------|-----------------|---------|
| Circular Connector        | P. 1-1 | RJ Connector    | P. 8-1  |
| M Series Sensor Connector | P. 3-1 | Cable Joiner    | P. 16-1 |
| USB Connector             | P. 4-1 | Vent Connector  | P. 18-1 |
| RBL Connector             | P.19-1 | X-Lok Connector | P. 20-1 |

\* More available: T&Y Connectors, T&Y Splitters, Distribution Box

## Agricultural and Farming Electronic System

### > Electric Fence System, Electronic Tags and Tracking, Device, Agriculture Weighting Scale, Measuring Devices, Diary Farming Devices

|                           |         |                                         |         |
|---------------------------|---------|-----------------------------------------|---------|
| Circular Connector        | P. 1-1  | RJ Connector                            | P. 8-1  |
| M Series Sensor Connector | P. 3-1  | PV AC Connectors / T-Junction Connector | P. 15-1 |
| USB Connector             | P. 4-1  | Cable Joiner                            | P. 16-1 |
| D-Sub Connector           | P. 6-1  | RBL Connector                           | P. 19-1 |
| X-Lok Connector           | P. 20-1 |                                         |         |

\* More available: T&Y Connectors, T&Y Splitters, Distribution Box

## Commercial Military Devices

### > Rugged Notebook, Night Vision Google, Miniature Rugged Camera, Rugged Tablet, Rugged Communication Devices

|                                       |         |                                   |        |
|---------------------------------------|---------|-----------------------------------|--------|
| Circular Connector                    | P. 1-1  | USB, Mini and Micro-USB Connector | P. 4-1 |
| Power Connector   8A(PWF) & 25A (PWH) | P. 2-1  | D- SUB Connector                  | P. 6-1 |
| M Series Sensor Connector             | P. 3-1  | RJ Connector                      | P. 8-1 |
| X-Lok Connector                       | P. 20-1 |                                   |        |

\* More available: Breakway connector

## Spa Controller

|                                      |        |               |              |
|--------------------------------------|--------|---------------|--------------|
| Circular Connector                   | P. 1-1 | LED Connector | P. 10-1      |
| M Series Sensor Connector   M8 & M12 | P. 3-1 | PPC Connector | Upon request |

## Metal Detectors

### > Portable Metal Detectors, Airport & Port Security Detection Devices

|                                 |        |              |        |
|---------------------------------|--------|--------------|--------|
| Circular Connector              | P. 1-1 | RJ Connector | P. 8-1 |
| M Series Sensor Connector   M12 | P. 3-1 |              |        |

## Fuel Cell Technologies

|                    |        |                                         |         |
|--------------------|--------|-----------------------------------------|---------|
| Circular Connector | P. 1-1 | RJ Connector                            | P. 8-1  |
| USB Connector      | P. 4-1 | PV AC Connectors / T-Junction Connector | P. 15-1 |
| RBL Connector      | P.19-1 |                                         |         |

\* More available: BMC Series

## UV Water Filtering

|                    |         |                  |        |
|--------------------|---------|------------------|--------|
| Circular Connector | P. 1-1  | D- SUB Connector | P. 6-1 |
| Power Connector    | P. 2-1  | RJ Connector     | P. 8-1 |
| USB Connector      | P. 4-1  | RBL Connector    | P.19-1 |
| X-Lok Connector    | P. 20-1 |                  |        |

\* More available: T&Y Connectors, T&Y Splitters, Distribution Box

## Electronic Faucets and Shower

|               |              |
|---------------|--------------|
| PPC Connector | Upon request |
|---------------|--------------|

## Circular Connector



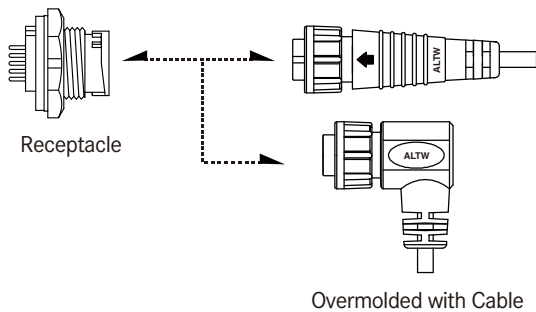


## Circular Connector

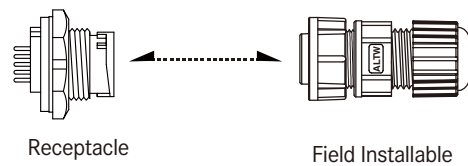


## Range Overview

### Receptacle To Overmolded with Cable

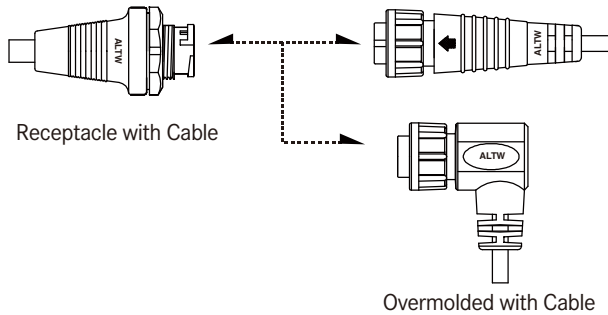


### Receptacle To Field Installable

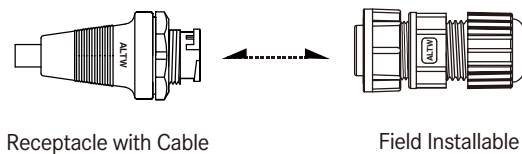




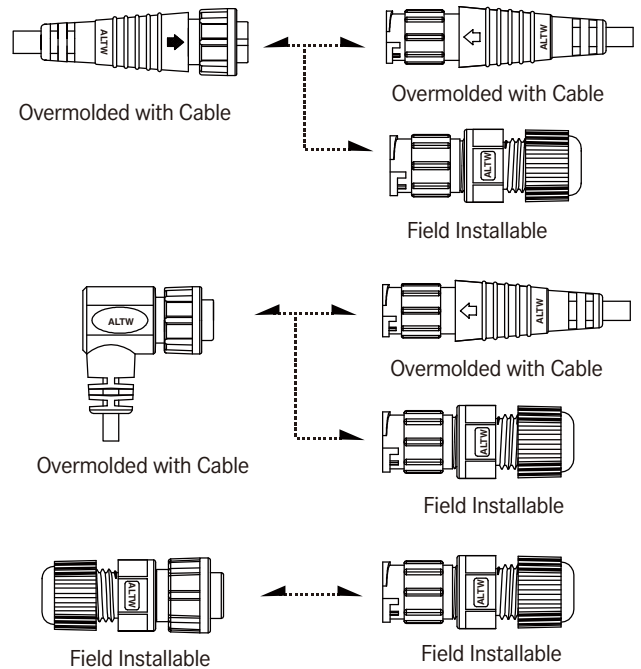
### Receptacle with Cable to Overmolded with Cable



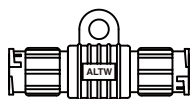
### Receptacle with Cable to Field Installable



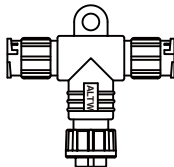
### In Line



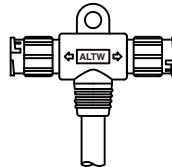
### Accessories



I Adaptor  
See page 21-7



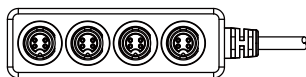
T Adaptor  
See page 21-4



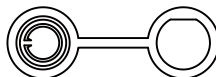
T Cable  
See page 21-1



Tool  
See page 21-22



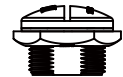
Extension  
See page 21-19



Dust Cap  
See page 21-9



Waterproof Cap  
See page 21-11



Dummy  
See page 21-18

# Specification

|                              |                                                                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | A Size (Mini Size: 7/16"-28 UNS)<br>B Size (Standard Size: 5/8"-27 UNS)<br>C Size (Middle Size: 13/16"-28 UNS)<br>D Size (Large Size: 1"-20 UNEF)<br>E Size (Macro Size: 1 3/16"-20 UNS) |
| <b>Description</b>           | Receptacle<br>Receptacle with cable<br>Overmolded with Cable<br>Field Installable                                                                                                        |
| <b>Current Rating / Data</b> | 2A, 5A, 10A, 20A, 5A+2A, 10A+2A, 10A+5A, 20A+2A, 20A+5A                                                                                                                                  |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : Nylon+GF, UL<br>Recognized                                                                                             |
| <b>Waterproof Rating</b>     | IP66~68                                                                                                                                                                                  |
| <b>Temperature Range</b>     | Receptacle: -40°C~105°C<br>Receptacle with cable: -20°C~80°C<br>Overmolded with Cable: -20°C~80°C<br>Field installable: -40°C~105°C                                                      |
| <b>Contact Resistance</b>    | ≤ 10mΩ                                                                                                                                                                                   |
| <b>Insulation Resistance</b> | ≥ 100MΩ at DC500V                                                                                                                                                                        |
| <b>Durability</b>            | 1000 cycles                                                                                                                                                                              |
| <b>Breakdown Voltage</b>     | ≥ AC1000V / 1 minute                                                                                                                                                                     |
| <b>More to know</b>          | Salt Spray Corrosion Test: 48H<br>Standard Cable Length: 01~99M                                                                                                                          |

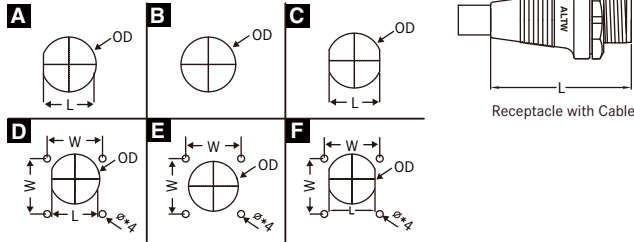
# Ordering Information

| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|----|
| <b>Specification / Current Rating</b><br><div> <div> <u>&gt;Mini Size</u><br/> <b>(AU)</b> 2A<br/> <b>(AD)</b> 5A<br/><br/> <u>&gt;Mini Size Metal</u><br/> <b>(ASU)</b> 2A<br/> <b>(ASD)</b> 5A<br/><br/> <u>&gt;Standard Size</u><br/> <b>(BU)</b> 2A<br/> <b>(BD)</b> 5A<br/> <b>(BB)</b> 10A<br/> <b>(BDU)</b> 5A+2A<br/> <b>(BBD)</b> 10A+5A<br/><br/> <u>&gt;Standard Size Metal</u><br/> <b>(BSU)</b> 2A<br/> <b>(BSD)</b> 5A<br/> <b>(BSB)</b> 10A </div> <div> <u>&gt;Middle Size</u><br/> <b>(CU)</b> 2A<br/> <b>(CD)</b> 5A<br/> <b>(CB)</b> 10A<br/> <b>(CC)</b> 20A<br/> <b>(CDU)</b> 5A+2A<br/> <b>(CBU)</b> 10A+2A<br/> <b>(CBD)</b> 10A+5A<br/> <b>(CGU)</b> 16A+2A<br/><br/> <u>&gt;Large Size</u><br/> <b>(DU)</b> 2A<br/> <b>(DD)</b> 5A<br/> <b>(DC)</b> 20A<br/> <b>(DCU)</b> 20A+2A<br/> <b>(DCD)</b> 20A+5A<br/><br/> <u>&gt;Large Size Metal</u><br/> <b>(DSD)</b> 5A </div> <div> <u>&gt;Macro Size</u><br/> <b>(ED)</b> 5A<br/><br/> <u>&gt;Others</u><br/> <b>(GBD)</b> 10A+5A (Between Standard Size &amp; Middle Size)<br/> <b>(MAB)</b> 10A (Equivalent to AMP)<br/> <b>(PLD)</b> 5A (Size 12) </div> </div> |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts</b><br>02, 03.....<br>EX. <b>(02)</b> = 2 Contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b><br><div> <div> <u>&gt; For Receptacle</u><br/> <b>(P)</b> Front Fastened<br/> <b>(R)</b> Rear Fastened </div> <div> <u>&gt; For Overmolded with Cable</u><br/> <b>(A)</b> With Strain Relief<br/> <b>(B)</b> Without Strain Relief </div> <div> <u>&gt; For Field installable</u><br/> <b>(B)</b> Without Strain Relief </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b><br><b>(M)</b> Male Connector <b>(F)</b> Female Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender</b><br><b>(M)</b> Male <b>(D)</b> Female (Power) + Male (Signal)<br><b>(F)</b> Female <b>(E)</b> Male (Power) + Female (Signal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b><br><div> <div> <u>&gt; For Receptacle</u><br/> <b>(S)</b> Solder Type<br/> <b>(B)</b> Screw in Type<br/> <b>(P)</b> 180° PCB Type<br/> <b>(R)</b> 90° PCB Type </div> <div> <u>&gt; For Overmolded with Cable</u><br/> <b>(M)</b> Overmolded with Cable<br/> <u>&gt; For Field Installable</u><br/> <b>(A)</b> Field installable (Solder)<br/> <b>(B)</b> Screw in Type </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b><br><b>(L)</b> 2 Points Lock Bayonet <b>(T)</b> 3 Points Lock Bayonet<br><b>(S)</b> Screw Thread <b>(Q)</b> Push Lock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b><br><div> <div> <u>&gt; For Receptacle</u><br/> <b>(C)</b> Circular<br/> <b>(S)</b> Square </div> <div> <u>&gt; For Overmolded with Cable</u><br/> <b>(L)</b> Straight<br/> <b>(R)</b> Right Angle </div> <div> <u>&gt; For Field Installable</u><br/> <b>(L)</b> Straight </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b><br><b>(6)</b> IP 66<br><b>(7)</b> IP 67<br><b>(8)</b> IP 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |    |
| <b>More Information</b><br><b>(C00)</b> Similar Standard with TC-ER Cable <u>&gt; For Overmolded with Cable</u><br><div> <div> <u>&gt; For Receptacle</u><br/> <b>(001), (002).....</b><br/>           Without Cable : Different Versions </div> <div> <div> <b>(□)</b> : Cable Type<br/> <b>(A)</b> UL2464 Cable<br/> <b>(B)</b> UL2586 Cable<br/> <b>(C)</b> Power Cable(TC-ER) </div> <div> <b>(■)</b> : Cable Length<br/>           From 1M to 99M<br/>           EX. <b>(01)</b> = 1M </div> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |    |

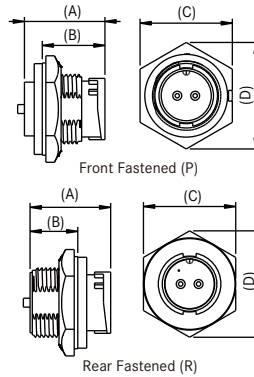
\* Design and specification are subject to change without notice.

# Physical Dimension

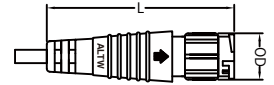
## Receptacle Panel Cut-Out



## Connector Dimension



## Overmolded with Cable

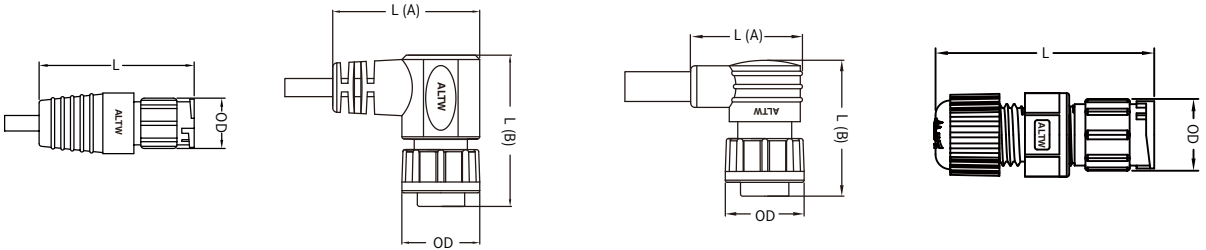


with Strain Relief / Straight

| Current Rating |       | Dimension        |      | Type        | L / W | OD   | ø    | L<br>(Connector Body) |
|----------------|-------|------------------|------|-------------|-------|------|------|-----------------------|
| Size           | Metal | Connector Gender | Male |             |       |      |      |                       |
| Mini Size      | -     | 2A(AU)           | A    | 10.4        | 10.9  | -    | 40.5 | -                     |
|                | -     | 2A(ASU)          | D    | 10.4 / 12.7 | 10.9  | 3.05 | -    | -                     |
|                | Metal | 5A(AD)           | A    | 10.4        | 10.9  | -    | 40.5 | -                     |
|                | Metal | 5A(ASD)          | D    | 10.4 / 12.7 | 10.9  | 3.05 | -    | -                     |
| Standard Size  | -     | 2A(BU)           | A    | 14.8        | 15.6  | -    | 42.6 | -                     |
|                | Metal | 2A(BSU)          | B    | -           | 15.6  | -    | -    | -                     |
|                |       |                  | C    | 14.0        | 16.0  | -    | -    | -                     |
|                | -     | 5A(BD)           | A    | 14.8        | 15.6  | -    | 42.6 | -                     |
|                | Metal | 5A(BSD)          | B    | -           | 15.6  | -    | -    | -                     |
|                |       |                  | E    | 16.0        | 15.6  | 3.1  | -    | -                     |
|                | -     | 5A+2A(BDU)       | A    | 14.8        | 15.6  | -    | 42.6 | -                     |
|                | -     | 10A(BB)          | A    | 14.8        | 15.6  | -    | 42.6 | -                     |
| Middle Size    | Metal | 10A(BSB)         | C    | 14.1        | 15.6  | -    | -    | -                     |
|                | -     | 10A+5A(BBD)      | A    | 14.8        | 15.6  | -    | 42.6 | -                     |
|                | -     | 2A(CU)           | A    | 19.4        | 20.8  | -    | -    | -                     |
|                | -     | 5A(CD)           | A    | 19.4        | 20.8  | -    | 47.0 | -                     |
|                | -     | 5A+2A(CDU)       | A    | 19.4        | 20.8  | -    | -    | -                     |
|                | -     | 10A(CB)          | A    | 19.4        | 20.8  | -    | 47.0 | -                     |
|                | -     | 10A+2A(CBU)      | A    | 19.4        | 20.8  | -    | -    | -                     |
| Large Size     | -     | 10A+5A(CBD)      | A    | 19.4        | 20.8  | -    | 59.5 | -                     |
|                | -     | 20A(CC)          | A    | 19.4        | 20.8  | -    | 47.0 | -                     |
|                | -     | 2A(DU)           | A    | 23.6        | 25.6  | -    | -    | -                     |
|                | -     | 5A(DD)           | A    | 23.6        | 25.6  | -    | -    | -                     |
|                | Metal | 5A(DD)           | D    | 23.6/24.4   | 25.6  | 3.1  | -    | -                     |
|                |       |                  | E    | 24.8/24.5   | 24.8  | 3.1  | -    | -                     |
|                | Metal | 5A(DSD)          | F    | 23.2/24.5   | 25.6  | 3.1  | -    | -                     |
|                |       |                  | F    | 23.2/24.5   | 25.6  | 3.1  | -    | -                     |
| Macro Size     | -     | 20A(DC)          | A    | 23.6        | 25.6  | -    | -    | -                     |
|                | -     | 20A(DC)          | D    | 23.6/24.4   | 25.6  | 3.1  | -    | -                     |
|                | -     | 20A+2A(DCU)      | A    | 23.6        | 25.6  | -    | -    | -                     |
|                | -     | 20A+5A(DCD)      | A    | 23.6        | 25.6  | -    | -    | -                     |
|                | -     | 5A(ED)           | D    | 29.0/30.1   | 30.1  | 3.5  | -    | -                     |
|                | -     | 10+5A(GBD)       | -    | -           | -     | -    | -    | -                     |
|                | -     | 10A(MAB)         | -    | -           | -     | -    | -    | -                     |
|                | -     | 5A(PLD)          | C    | 11.3        | 12.8  | -    | -    | -                     |

| A                | B                 | C                | D                | Panel Thickness Max |                | L      |      | OD               |      |
|------------------|-------------------|------------------|------------------|---------------------|----------------|--------|------|------------------|------|
|                  |                   |                  |                  | Lock Type           | Screw Type     | Female | Male | Female           | Male |
| P:18.4<br>R:18.0 | P:14.0<br>R:10.8  | 15.7             | 18.1             | P:3.5<br>R:5.0      | P:5.0<br>R:5.0 | 43.5   | 44.5 | 15.2             | 13.5 |
| 18.6             | 14.0              | 15.7             | 18.1             | P:3.5               | -              | -      | -    | -                | -    |
| P:18.4<br>R:18.0 | P:14.0<br>R:10.8  | 15.7             | 18.1             | P:3.5<br>R:5.0      | P:5.0<br>R:5.0 | 43.5   | 44.5 | 15.2             | 13.5 |
| 18.6             | 14.0              | 15.7             | 18.1             | P:3.5               | -              | -      | -    | -                | -    |
| P:18.0<br>R:18.0 | P:14.0<br>R:10.65 | 20.6             | 23.5             | P:4.5<br>R:5.0      | P:4.0<br>R:5.0 | 55.5   | 59.0 | S-20.0<br>L-18.0 | 14.6 |
| P:18.8<br>R:19.8 | P:16.3<br>R:11.3  | 22.0             | 25.4             | -                   | P:5.0<br>R:7.0 | -      | -    | -                | -    |
| P:18.0<br>R:18.0 | P:14.0<br>R:10.65 | 20.6             | 25.4             | P:4.5<br>R:5.0      | P:4.0<br>R:5.0 | 55.5   | 59.0 | S-20.0<br>L-18.0 | 14.6 |
| P:18.0<br>R:19.8 | P:14.0<br>R:11.3  | P:21.0<br>R:22.0 | P:23.9<br>R:25.4 | -                   | P:4.4<br>R:7.0 | -      | -    | -                | -    |
| P:18.0<br>R:18.0 | P:14.0<br>R:10.65 | 20.6             | 23.5             | P:4.5<br>R:5.0      | P:4.0<br>R:5.0 | 55.5   | -    | S-20.0<br>L-18.0 | -    |
| P:18.0<br>R:18.0 | P:14<br>R:10.65   | 20.6             | 23.5             | P:4.5<br>R:5.0      | P:4.0<br>R:5.0 | 55.5   | 59.0 | S-20.0<br>L-18.0 | 14.6 |
| 19.8             | 11.3              | 22.0             | 25.4             | -                   | R:7.0          | -      | -    | -                | -    |
| P:18.0<br>R:18.0 | P:14.0<br>R:10.65 | 20.6             | 23.8             | P:4.5<br>R:5.0      | P:4.0<br>R:5.0 | 43.0   | 59.0 | S-20.0<br>L-18.0 | 14.6 |
| 17.0             | 14.0              | 25.4             | 29.3             | P:4.0               | P:3.0          | 60.0   | -    | L-22.2<br>S-25.4 | -    |
| P:17.0<br>R:18.0 | P:14.0<br>R:10.0  | 25.4             | 29.3             | P:4.0<br>R:4.0      | P:3.0<br>R:4.0 | 60.0   | 60.0 | L-22.2<br>S-25.4 | 20.0 |
| 18.0             | 14.0              | 25.4             | 29.3             | P:4.0               | P:3.0          | 60.5   | -    | L-22.2<br>S-25.4 | -    |
| P:17.0<br>R:18.0 | P:14.0<br>R:10.0  | 25.4             | 29.3             | P:4.0<br>R:4.0      | P:3.0<br>R:4.0 | 60.0   | -    | L-22.2<br>S-25.4 | -    |
| 18.0             | 15.0              | 25.4             | 29.3             | P:4.0               | -              | 60.3   | -    | 23.0             | -    |
| 19.5             | F:15<br>R:11.5    | 25.4             | 29.3             | P:4.0               | P:3.0          | 60.0   | -    | L-22.2<br>S-25.4 | -    |
| P:17.0<br>R:18.0 | P:14.0<br>R:10.0  | 25.4             | 29.3             | P:4.0<br>R:4.0      | P:3.0<br>R:4.0 | 60.0   | -    | L-22.2<br>S-25.4 | -    |
| 18.0             | 14.8              | 28.5             | 33.0             | P:4.0               | -              | 59.5   | -    | S-32.0<br>L-28.5 | -    |
| P:18.0<br>R:18.0 | P:14.9<br>R:10.3  | 28.5             | 33.0             | P:4.0<br>R:4.0      | P:4.0<br>R:4.0 | 59.5   | 59.5 | S-32.0<br>L-28.5 | 22.5 |
| 17.9             | 14.6              | 29.0             | 33.5             | -                   | P:3.5          | -      | -    | -                | -    |
| 18.0             | 14.6              | 29.0             | 33.4             | -                   | P:3.5          | -      | -    | -                | -    |
| P:18.0<br>R:18.0 | P:14.9<br>R:10.3  | 28.5             | 33.0             | P:4.0<br>R:4.0      | P:4.0<br>R:4.0 | 59.5   | -    | S:32.0<br>L:28.5 | -    |
| 18.8             | 14.8              | 28.5             | 33.0             | P:4.0               | -              | 63.5   | 69.7 | 28.5             | 22.5 |
| 19               | P:14.9/R:10.8     | 28.5             | 33.0             | P:4.0/R:3.5         | P:4.0/R:3.5    | 59.5   | 59.5 | 28.5             | 22.5 |
| 17.6             | 14.9              | 34.9             | 4.0              | P:3.5               | -              | 70.0   | -    | 33.3             | -    |
| -                | -                 | -                | -                | -                   | -              | 68.7   | 73.5 | 26.6             | 25.0 |
| -                | -                 | -                | -                | -                   | -              | 61.5   | 61.5 | 23.0             | 19.4 |
| 15.9             | 13.4              | 15.8             | 17.3             | P:3.0               | -              | -      | -    | -                | -    |

Field installable



without Strain Relief / Straight

with Strain Relief / Right Angle

without Strain Relief / Right Angle

without Strain Relief / Straight

| L      |      | OD               |      |
|--------|------|------------------|------|
| Female | Male | Female           | Male |
| 34.0   | 35.3 | 15.2             | 13.5 |
| -      | -    | -                | -    |
| 34.0   | 35.3 | 15.2             | 13.5 |
| -      | -    | -                | -    |
| 43.0   | 45.0 | S-20.0<br>L-18.0 | 14.6 |
| 37.8   | -    | 19.0             | -    |
| 43.0   | 45.0 | S-20.0<br>L-18.0 | 14.6 |
| 37.8   | -    | 19.0             | -    |
| 43.0   | -    | S-20.0<br>L-18.0 | -    |
| 43.0   | 45.0 | S-20.0<br>L-18.0 | 14.6 |
| -      | -    | -                | -    |
| 43.0   | 45.0 | S-20.0<br>L-18.0 | 14.6 |
| 41.8   | -    | L-22.2<br>S-25.4 | -    |
| 41.8   | 41.8 | L-22.2<br>S-25.4 | 20.0 |
| 41.8   | -    | L-22.2<br>S-25.4 | -    |
| 41.8   | -    | L-22.2<br>S-25.4 | -    |
| -      | -    | -                | -    |
| 41.8   | -    | L-22.2<br>S-25.4 | -    |
| 41.8   | -    | L-22.2<br>S-25.4 | -    |
| 52.0   | -    | S-32.0<br>L-28.5 | -    |
| 52.0   | 52.0 | S-32.0<br>L-28.5 | 22.5 |
| 49.3   | -    | 30.0             | -    |
| 49.3   | -    | 30.0             | -    |
| 52.0   | -    | S32.0<br>L-28.5  | -    |
| -      | -    | -                | -    |
| -      | -    | -                | -    |
| 60.2   | 65.0 | 26.6             | 25.0 |
| 53.0   | 53.0 | 23.0             | 19.4 |
| -      | -    | -                | -    |

| L [A]  |      | L [B]  |      | OD               |      |
|--------|------|--------|------|------------------|------|
| Female | Male | Female | Male | Female           | Male |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| 34.0   | -    | 35.0   | -    | S-20.0<br>L-18.0 | -    |
| -      | -    | -      | -    | -                | -    |
| 34.0   | -    | 35.0   | -    | S-20.0<br>L-18.0 | -    |
| -      | -    | -      | -    | -                | -    |
| 34.0   | -    | 35.0   | -    | S-20.0<br>L-18.0 | -    |
| 34.0   | -    | 35.0   | -    | S-20.0<br>L-18.0 | -    |
| -      | -    | -      | -    | -                | -    |
| 34.0   | -    | 35.0   | -    | S-20.0<br>L-18.0 | -    |
| -      | -    | -      | -    | -                | -    |
| 42.5   | -    | 39.5   | -    | 22.2             | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| 44.1   | -    | 49.8   | -    | S-32.0<br>L-28.5 | -    |
| 40.0   | -    | 40.0   | -    | 30.0             | -    |
| 40.0   | -    | 40.0   | -    | 30.0             | -    |
| -      | -    | -      | -    | -                | -    |
| 44.1   | -    | 49.8   | -    | 28.5             | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |

| L [A]  |      | L [B]  |      | OD               |      |
|--------|------|--------|------|------------------|------|
| Female | Male | Female | Male | Female           | Male |
| 24.0   | -    | 29.4   | -    | 15.2             | -    |
| -      | -    | -      | -    | -                | -    |
| 24.0   | -    | 29.4   | -    | 15.2             | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| 30.0   | -    | 33.6   | -    | 19.0             | -    |
| 25.5   | -    | 31.0   | -    | S-20.0<br>L-18.0 | -    |
| 30.0   | -    | 33.6   | -    | 19.0             | -    |
| -      | -    | -      | -    | -                | -    |
| 25.5   | -    | 31.0   | -    | S-20.0<br>L-18.0 | -    |
| -      | -    | -      | -    | -                | -    |
| 25.5   | -    | 31.0   | -    | S-20.0<br>L-18.0 | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| 40.0   | -    | 40.0   | -    | 30.0             | -    |
| 40.0   | -    | 40.0   | -    | 30.0             | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |
| -      | -    | -      | -    | -                | -    |

| L      |       | OD               |      |
|--------|-------|------------------|------|
| Female | Male  | Female           | Male |
| 41.5   | 41.5  | 15.2             | 13.5 |
| -      | -     | -                | -    |
| 41.5   | 41.5  | 15.2             | 13.5 |
| -      | -     | -                | -    |
| 44.0   | 43.0  | S-20.0<br>L-18.0 | 14.6 |
| -      | -     | -                | -    |
| 43.0   | 43.0  | S-20.0<br>L-18.0 | 14.6 |
| -      | -     | -                | -    |
| 43.0   | -     | S-20.0<br>L-18.0 | -    |
| 43.0   | 43.0  | S-20.0<br>L-18.0 | 14.6 |
| -      | -     | -                | -    |
| 43.0   | 43.0  | S-20.0<br>L-18.0 | 14.6 |
| 48.2   | -     | L-22.2<br>S-25.4 | -    |
| 48.2   | 48.65 | L-22.2<br>S-25.4 | 20.0 |
| -      | -     | -                | -    |
| 48.2   | -     | L-22.2<br>S-25.4 | -    |
| 49.7   | -     | 23.0             | -    |
| -      | -     | -                | -    |
| 48.2   | -     | L-22.2<br>S-25.4 | -    |
| -      | -     | -                | -    |
| 54.9   | 54.9  | S-32.0<br>L-28.5 | 23.0 |
| -      | -     | -                | -    |
| -      | -     | -                | -    |
| 54.9   | 54.9  | S-32.0<br>L-28.5 | 23.0 |
| 62.8   | 59.3  | L-28.5           | 23.0 |
| 59.9   | 59.9  | L-28.5           | 23.0 |
| -      | -     | -                | -    |
| -      | -     | -                | -    |
| 39.2   | 35.3  | 15.0             | 15.0 |

Dimensions are shown in millimeters

## Contact Configuration

|        | Mini Size (A)                                                                     |          |                                                                                   |          |                                                                                   |          | Standard Size (B)                                                                   |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
|--------|-----------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|        | 2A(AU)(ASU)                                                                       |          | 5A(AD)                                                                            |          | 5A(ASD)                                                                           |          | 2A(BU)(BSU)                                                                         |          | 5A(BD)                                                                            |                                                                                   | 5A(BSD)                                                                           |          | 10A(BB)                                                                             |                                                                                     |
| 4 5    | MM or FF                                                                          | MF or FM | MM or FF                                                                          | MF or FM | MM or FF                                                                          | MF or FM | MM or FF                                                                            | MF or FM | MM or FF                                                                          | MF or FM                                                                          | MM or FF                                                                          | MF or FM | MM or FF                                                                            | MF or FM                                                                            |
| 2 Pin  |                                                                                   |          |  |          |  |          |                                                                                     |          |  |  |  |          |  |  |
|        |                                                                                   |          | R   C   F                                                                         |          | R                                                                                 |          |                                                                                     |          | R   C   F                                                                         | R   C   F                                                                         | R   C   F                                                                         |          | R   C   F                                                                           | R   C   F                                                                           |
| 3 Pin  |                                                                                   |          |  |          |                                                                                   |          |                                                                                     |          |  |  |  |          |  |  |
|        |                                                                                   |          | R   C   F                                                                         |          |                                                                                   |          |                                                                                     |          | R   C   F                                                                         | R   C   F                                                                         | R   C   F                                                                         |          | R   C   F                                                                           | R   C   F                                                                           |
| 4 Pin  |  |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |  |  |  |          |  |                                                                                     |
|        | R   C   F                                                                         |          |                                                                                   |          |                                                                                   |          |                                                                                     |          | R   C   F                                                                         | R   C   F                                                                         | R   C   F                                                                         |          | R   C   F                                                                           |                                                                                     |
| 5 Pin  |  |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |  |  |  |          |                                                                                     |                                                                                     |
|        | R   C   F                                                                         |          |                                                                                   |          |                                                                                   |          |                                                                                     |          | R   C   F                                                                         | R   C   F                                                                         | R   C   F                                                                         |          |                                                                                     |                                                                                     |
| 6 Pin  |  |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |  |  |  |          |                                                                                     |                                                                                     |
|        | R   C   F                                                                         |          |                                                                                   |          |                                                                                   |          |                                                                                     |          | R   C   F                                                                         | R   C   F                                                                         | R   C   F                                                                         |          |                                                                                     |                                                                                     |
| 7 Pin  |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |  |                                                                                   |  |          |                                                                                     |                                                                                     |
|        |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          | R   C   F                                                                         |                                                                                   | R   C   F                                                                         |          |                                                                                     |                                                                                     |
| 8 Pin  |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |  |                                                                                   |  |          |                                                                                     |                                                                                     |
|        |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          | R   C   F                                                                         |                                                                                   | R   C   F                                                                         |          |                                                                                     |                                                                                     |
| 9 Pin  |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 10 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |  |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
|        |                                                                                   |          |                                                                                   |          |                                                                                   |          | R   C   F                                                                           |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 12 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |  |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
|        |                                                                                   |          |                                                                                   |          |                                                                                   |          | R   C   F                                                                           |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 14 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 18 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 20 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 21 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 22 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |
| 31 Pin |                                                                                   |          |                                                                                   |          |                                                                                   |          |                                                                                     |          |                                                                                   |                                                                                   |                                                                                   |          |                                                                                     |                                                                                     |

\* Standard Size Metal (BSU): 10 Contact

Standard Size (10A | 5A+2A | 10A+5A)  
Middle Size (2A | 5A | 10A | 20A | 5A+2A)

|                                                                                                                                                                                                                                                                                                                                      |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>R:</b> Receptacle                                                                                                                                                                                                                                                                                                                 |                                                                                       |
| <b>C:</b> Overmolded with Cable                                                                                                                                                                                                                                                                                                      |                                                                                       |
| <b>F:</b> Field Installable                                                                                                                                                                                                                                                                                                          |                                                                                       |
| <ul style="list-style-type: none"> <li>● 2A (AU/ASU/BSU/BU/CU/DU) <b>1</b></li> <li>▲ 5A (AD/ASD/BD/BSD/CD/DD/DSD/ED/PLD)</li> <li>■ 10A (BB/BSB/MAB)</li> <li>◇ 20A (CC/DC)</li> <li>▲ ● 5A+2A (BDU/CDU)</li> <li>■ ● 10A+2A (CBU)</li> <li>■ ▲ 10A+5A (BBD/CBD/GBD)</li> <li>◇ ● 20A+2A (DCU)</li> <li>◇ ▲ 20A+5A (DCD)</li> </ul> |                                                                                       |
| <b>Number of Contacts:</b>                                                                                                                                                                                                                                                                                                           | <b>2</b>                                                                              |
| Ex.2 contacts (02)                                                                                                                                                                                                                                                                                                                   |                                                                                       |
| <b>Connector (Housing) Gender:</b>                                                                                                                                                                                                                                                                                                   | <b>4</b>                                                                              |
| Male (M) or Female (F)                                                                                                                                                                                                                                                                                                               |                                                                                       |
| <b>Contact Gender:</b>                                                                                                                                                                                                                                                                                                               | <b>5</b>                                                                              |
| Male (M) or Female (F)                                                                                                                                                                                                                                                                                                               |                                                                                       |
| Male + Female (D) / (E)                                                                                                                                                                                                                                                                                                              |                                                                                       |
| <b>More to Choose:</b>                                                                                                                                                                                                                                                                                                               | <b>6</b>                                                                              |
| <ul style="list-style-type: none"> <li>● Solder (S)</li> <li>- Solder Cup</li> </ul>                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>● Screw In (B)</li> </ul>                      |
|                                                                                                                                                                                                                                                  |  |
| <ul style="list-style-type: none"> <li>● PCB Type</li> <li>- 90° PCB (R)</li> </ul>                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>- 180° PCB (P)</li> </ul>                      |
|                                                                                                                                                                                                                                                  |  |
| <ul style="list-style-type: none"> <li>● Crimp (C) Upon Request</li> </ul>                                                                                                                                                                                                                                                           |                                                                                       |
|                                                                                                                                                                                                                                                  |                                                                                       |

## Innovation in Waterproof Solution 1-10

## Contact Configuration

|        | Middle Size (C)                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     | Middle Size (C)                                                                   |                                                                                   |                                                                                   |                                                                                   | Large Size (D)                                                                      |                                                                                       |                                                                                       |          |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------|
|        | 10A(CB)                                                                           |                                                                                   | 20A(CC)                                                                           |          | 5A+2A(CDU) |                                                                                     | 10A+5A(CBD)                                                                       |                                                                                   | 10A+2A(CBU)                                                                       |                                                                                   | 2A(DU)                                                                              |                                                                                       | 5A(DD)(DSD)                                                                           |          |
| 4 5    | MM or FF                                                                          | MF or FM                                                                          | MM or FF                                                                          | MF or FM | MM or FF   | MF or FM                                                                            | MM or FF                                                                          | MF or FM                                                                          | MM or FF                                                                          | MF or FM                                                                          | MM or FF                                                                            | MF or FM                                                                              | MM or FF                                                                              | MF or FM |
| 2 Pin  |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 3 Pin  |                                                                                   |                                                                                   |  |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   | R   C   F                                                                         |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 4 Pin  |  |  |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
|        | R   C   F                                                                         | R   C   F                                                                         |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 5 Pin  |  |  |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
|        | R   C   F                                                                         | R   C   F                                                                         |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 6 Pin  |  |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
|        | R   C   F                                                                         |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 7 Pin  |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 8 Pin  |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |  |  |  |  |                                                                                     |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     | R   C                                                                             | R   C                                                                             | R   C   F                                                                         | R   C   F                                                                         |                                                                                     |                                                                                       |                                                                                       |          |
| 9 Pin  |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 10 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 12 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            | R   C   F                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 14 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            | R   C   F                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |
| 18 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |  |  |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | R   C   F                                                                             | R   C   F                                                                             |          |
| 20 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   | R   C   F                                                                           |                                                                                       |                                                                                       |          |
| 21 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   | R   C   F                                                                           |                                                                                       |                                                                                       |          |
| 22 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |                                                                                       |                                                                                       |          |
|        |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   | R   C   F                                                                           |                                                                                       |                                                                                       |          |
| 31 Pin |                                                                                   |                                                                                   |                                                                                   |          |            |                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                       |                                                                                       |          |

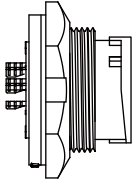


Macro Size (5A)  
Other Size (10A+5A | 10A | 5A)

\* Design and specification are subject to change without notice.

## Product Features

### ⌵ Receptacle



#### Flange 8



Circular (C)



Square (S)

#### Mating Style 7



2 Points Lock Bayonet (L)



3 Points Lock Bayonet (T)

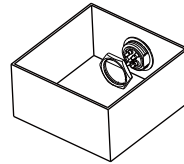


Screw Thread (S)

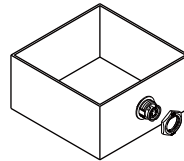


Push Lock (Q)

#### Connector Body(Style) 3



Rear Fastened (R)

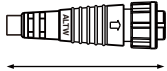
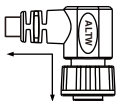


Front Fastened (P)

### ⌵ Overmolded with Cable



#### Backshell 8

Straight  
(L)Right Angle  
(R)

#### Mating Style 7



2 Points Lock Bayonet (L)



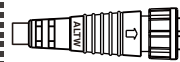
3 Points Lock Bayonet (T)



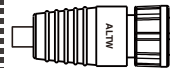
Screw Thread (S)

Push Lock (Q)  
Upon request

#### Connector Body(Style) 3

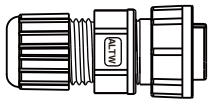


With Strain Relief (A)



Without Strain Relief (B)

### ⌵ Field Installable



#### Backshell 8

Straight  
(L)

#### Mating Style 7



2 Points Lock Bayonet (L)



3 Points Lock Bayonet (T)

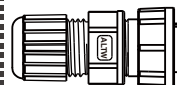


Screw Thread (S)



Push Lock (Q)

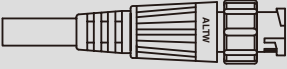
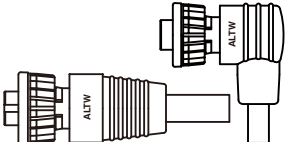
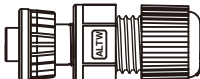
#### Connector Body(Style) 3



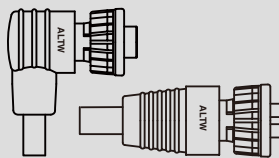
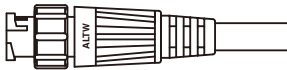
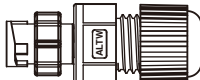
Without Strain Relief (B)

## Find Our Standard Products

### └ Mini Size: 7/16"-28 UNS > In-line

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |            | Overmolded with Cable                                                             | Overmolded with Cable                                                              | Field Installable                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                        |            |  |  |  |
|                                                                                                                                        |            | ** Select cable length from 01~99m                                                | ** Select cable length from 01~99m                                                 |                                                                                     |
| Current Rating (Code)                                                                                                                  | Contacts ② | Male Connector (M)<br>Male Contacts (M)                                           | Female Connector (F)<br>Female Contacts (F)                                        | Female Connector (F)<br>Female Contacts (F)                                         |
| 2A (AU)                                                                                                                                | 04,05,06   | AU- ② AMMM-LL6A**<br>AU- ② BMMM-LL7A**                                            | AU- ② AFFM-LL6A**<br>AU- ② BFFM-LL7A**<br>AU- ② BFFM-LR6A**                        | AU- ② BFFA-LL7001                                                                   |
| 5A (AD)                                                                                                                                | 02,03      | AD- ② AMMM-LL6A**<br>AD- ② BMMM-LL7A**                                            | AD- ② AFFM-LL6A**<br>AD- ② BFFM-LL7A**<br>AD- ② BFFM-LR6A**                        | AD- ② BFFA-LL7001                                                                   |

### └ Mini Size: 7/16"-28 UNS > In-line

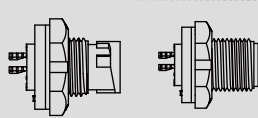
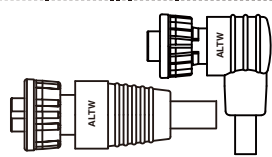
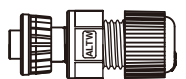
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |            | Overmolded with Cable                                                               | Overmolded with Cable                                                                | Field Installable                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                            |            |  |  |  |
|                                                                                                                                            |            | **Select cable length from 01~99m                                                   | **Select cable length from 01~99m                                                    |                                                                                       |
| Current Rating (Code)                                                                                                                      | Contacts ② | Female Connector (F)<br>Female Contacts (F)                                         | Male Connector (M)<br>Male Contacts (M)                                              | Male Connector (M)<br>Male Contacts (M)                                               |
| 2A (AU)                                                                                                                                    | 04,05,06   | AU- ② AFFM-LL6A**<br>AU- ② BFFM-LL7A**<br>AU- ② BFFM-LR6A**                         | AU- ② AMMM-LL6A**<br>AU- ② BMMM-LL7A**                                               | AU- ② BMMA-LL7001                                                                     |
| 5A (AD)                                                                                                                                    | 02,03      | AD- ② AFFM-LL6A**<br>AD- ② BFFM-LL7A**<br>AD- ② BFFM-LR6A**                         | AD- ② AMMM-LL6A**<br>AD- ② BMMM-LL7A**                                               | AD- ② BMMA-LL7001                                                                     |

## Mini Size: 7/16"-28 UNS

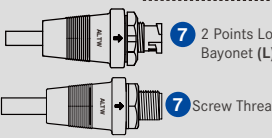
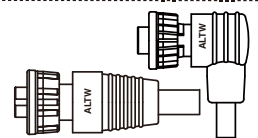
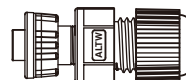
Receptacle and Mating Pair | Receptacle with Overmolded Cable and Mating Pair  
Screw Thread & 2 Points Lock Bayonet

**IP 66 ~ 68** 9  
Unmated or Mated

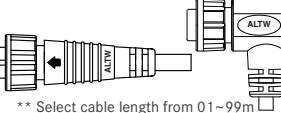
### Mini Size: 7/16"-28 UNS > Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |            | Receptacle  <ul style="list-style-type: none"> <li>7 2 Points Lock Bayonet (L)</li> <li>6 Choose the PCB Type (P/R) or Solder Type (S)</li> <li>8 Choose the backshell circular (C) or square flange (S).</li> <li>10 Choose Plastic (001) or Metal Nut (002)</li> </ul> | Overmolded with Cable  <ul style="list-style-type: none"> <li>7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S)</li> </ul> **Select cable length from 01~99m | Field Installable  <ul style="list-style-type: none"> <li>7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S)</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                     | Contacts 2 | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                                                                                                                   | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                        | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                    |
| 2A (AU)                                                                                                                                                   | 04,05,06   | AU- 2 PMM 6 - 7 8 7001<br>AU- 2 RMMS - 7 C7001                                                                                                                                                                                                                                                                                                            | AU- 2 AFFM- 7 L6A**<br>AU- 2 BFFM- 7 L7A**<br>AU- 2 BFFM- 7 R6A**                                                                                                                                                                                  | AU- 2 BFFA- 7 L7001                                                                                                                                                                                            |
| 2A (ASU)<br>*Metal                                                                                                                                        | 04,05,06   | ASU- 2 PMMS- LS70010                                                                                                                                                                                                                                                                                                                                      | AU- 2 AFFM-LL6A**<br>AU- 2 BFFM-LL7A**<br>AU- 2 BFFM-LR6A**                                                                                                                                                                                        | AU- 2 BFFA-LL7001                                                                                                                                                                                              |
| 5A (AD)                                                                                                                                                   | 02,03      | AD- 2 PMM 6 - 7 8 7001<br>AD- 2 RMMS - 7 C70010                                                                                                                                                                                                                                                                                                           | AD- 2 AFFM- 7 L6A**<br>AD- 2 BFFM- 7 L7A**<br>AD- 2 BFFM- 7 R6A**                                                                                                                                                                                  | AD- 2 BFFA- 7 L7001                                                                                                                                                                                            |
| 5A (ASD)<br>*Metal                                                                                                                                        | 02,03      | ASD- 2 PMM 6 -LS70010                                                                                                                                                                                                                                                                                                                                     | AD- 2 AFFM-LL6A**<br>AD- 2 BFFM-LL7A**<br>AD- 2 BFFM-LR6A**                                                                                                                                                                                        | AD- 2 BFFA-LL7001                                                                                                                                                                                              |

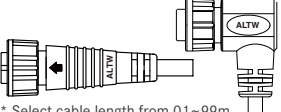
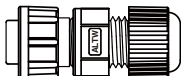
### Mini Size: 7/16"-28 UNS > Receptacle with Overmolded Cable and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |            | Receptacle  <ul style="list-style-type: none"> <li>7 2 Points Lock Bayonet (L)</li> <li>7 Screw Thread (S)</li> </ul> **Select cable length from 01~99m | Overmolded with Cable  <ul style="list-style-type: none"> <li>7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S)</li> </ul> **Select cable length from 01~99m | Field Installable  <ul style="list-style-type: none"> <li>7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S)</li> </ul> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                     | Contacts 2 | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                    | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                          | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                      |
| 2A (AU)                                                                                                                                                   | 04,05,06   | AU- 2 PMMM- 7 L7A**                                                                                                                                                                                                                        | AU- 2 AFFM- 7 L6A**<br>AU- 2 BFFM- 7 L7A**<br>AU- 2 BFFM- 7 R6A**                                                                                                                                                                                    | AU- 2 BFFA- 7 L7001                                                                                                                                                                                              |
| 5A (AD)                                                                                                                                                   | 02,03      | AD- 2 PMMM- 7 L7A**                                                                                                                                                                                                                        | AD- 2 AFFM- 7 L6A**<br>AD- 2 BFFM- 7 L7A**<br>AD- 2 BFFM- 7 R6A**                                                                                                                                                                                    | AD- 2 BFFA- 7 L7001                                                                                                                                                                                              |

### Standard Size: 5/8"-27 UNS > In-line

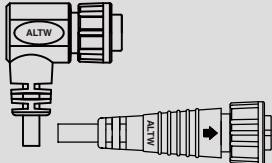
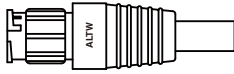
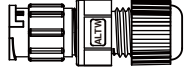
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |                          | Overmolded with Cable  | Overmolded with Cable  | Field Installable  |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                  | Contacts 2               | Male Connector (M)<br>Male Contacts (M)                                                                 | Female Connector (F)<br>Female Contacts (F)                                                              | Female Connector (F)<br>Female Contacts (F)                                                           |
| 2A (BU)                                                                                                                                | 10, 12                   | BU- 2 AMMM-LL6A**<br>BU- 2 BMMM-LL7A**                                                                  | BU- 2 AFFM-LL6A**<br>BU- 2 AFFM-LR7A**<br>BU- 2 BFFM-LL7A**<br>BU- 2 BFFM-LR6A**                         | BU- 2 BFFA-LL7001                                                                                     |
| 5A (BD)                                                                                                                                | 02,03,04,<br>05,06,07,08 | BD- 2 AMMM-LL6A**<br>BD- 2 BMMM-LL7A**                                                                  | BD- 2 AFFM-LL6A**<br>BD- 2 AFFM-LR7A**<br>BD- 2 BFFM-LL7A**<br>BD- 2 BFFM-LR6A**                         | BD- 2 BFFA-LL7001                                                                                     |
| 10A (BB)                                                                                                                               | 02,03,04                 | BB- 2 AMMM-LL6A**<br>BB- 2 BMMM-LL7A**                                                                  | BB- 2 AFFM-LL6A**<br>BB- 2 AFFM-LR7A**<br>BB- 2 BFFM-LL7A**<br>BB- 2 BFFM-LR6A**                         | BB- 2 BFFA-LL7001                                                                                     |

### Standard Size: 5/8"-27 UNS > In-line

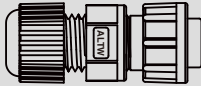
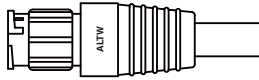
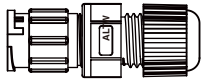
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |                          | Field Installable  | Overmolded with Cable  | Field Installable  |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                  | Contacts 2               | Male Connector (M)<br>Male Contacts (M)                                                               | Female Connector (F)<br>Female Contacts (F)                                                                | Female Connector (F)<br>Female Contacts (F)                                                             |
| 2A (BU)                                                                                                                                | 10, 12                   | BU- 2 BMMA-LL7001                                                                                     | BU- 2 AFFM-LL6A**<br>BU- 2 AFFM-LR7A**<br>BU- 2 BFFM-LL7A**<br>BU- 2 BFFM-LR6A**                           | BU- 2 BFFA-LL7001                                                                                       |
| 5A (BD)                                                                                                                                | 02,03,04,<br>05,06,07,08 | BD- 2 BMMA-LL7001                                                                                     | BD- 2 AFFM-LL6A**<br>BD- 2 AFFM-LR7A**<br>BD- 2 BFFM-LL7A**<br>BD- 2 BFFM-LR6A**                           | BD- 2 BFFA-LL7001                                                                                       |
| 10A (BB)                                                                                                                               | 02,03,04                 | BB- 2 BMMA-LL7001                                                                                     | BB- 2 AFFM-LL6A**<br>BB- 2 AFFM-LR7A**<br>BB- 2 BFFM-LL7A**<br>BB- 2 BFFM-LR6A**                           | BB- 2 BFFA-LL7001                                                                                       |

\* Design and specification are subject to change without notice.

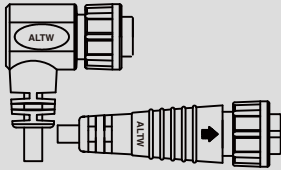
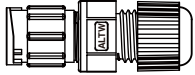
## Standard Size: 5/8"-27 UNS &gt; In-line

| <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Female Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |                          | Overmolded with Cable                                                             | Overmolded with Cable                                                             | Field Installable                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                      |                          |  |  |  |
|                                                                                                                                      |                          | ** Select cable length from 01~99m                                                | ** Select cable length from 01~99m                                                |                                                                                     |
| Current Rating (Code)                                                                                                                | Contacts 2               | Female Connector (F)<br>Female Contacts (F)                                       | Male Connector (M)<br>Male Contacts (M)                                           | Male Connector (M)<br>Male Contacts (M)                                             |
| 2A (BU)                                                                                                                              | 10,12                    | BU- 2 AFFM-LL6A**<br>BU- 2 AFFM-LR7A**<br>BU- 2 BFFM-LL7A**<br>BU- 2 BFFM-LR6A**  | BU- 2 AMMM-LL6A**<br>BU- 2 BMMM-LL7A**                                            | BU- 2 BMMA-LL7001                                                                   |
| 5A (BD)                                                                                                                              | 02,03,04,<br>05,06,07,08 | BD- 2 AFFM-LL6A**<br>BD- 2 AFFM-LR7A**<br>BD- 2 BFFM-LL7A**<br>BD- 2 BFFM-LR6A**  | BD- 2 AMMM-LL6A**<br>BD- 2 BMMM-LL7A**                                            | BD- 2 BMMA-LL7001                                                                   |
| 10A (BB)                                                                                                                             | 02,03,04                 | BB- 2 AFFM-LL6A**<br>BB- 2 AFFM-LR7A**<br>BB- 2 BFFM-LL7A**<br>BB- 2 BFFM-LR6A**  | BB- 2 AMMM-LL6A**<br>BB- 2 BMMM-LL7A**                                            | BB- 2 BMMA-LL7001                                                                   |

## Standard Size: 5/8"-27 UNS &gt; In-line

| <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Female Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |                          | Field Installable                                                                   | Overmolded with Cable                                                               | Field Installable                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                      |                          |  |  |  |
|                                                                                                                                      |                          |                                                                                     | ** Select cable length from 01~99m                                                  |                                                                                       |
| Current Rating (Code)                                                                                                                | Contacts 2               | Female Connector (F)<br>Female Contacts (F)                                         | Male Connector (M)<br>Male Contacts (M)                                             | Male Connector (M)<br>Male Contacts (M)                                               |
| 2A (BU)                                                                                                                              | 10,12                    | BU- 2 BFFA-LL7001                                                                   | BU- 2 AMMM-LL6A**<br>BU- 2 BMMM-LL7A**                                              | BU- 2 BMMA-LL7001                                                                     |
| 5A (BD)                                                                                                                              | 02,03,04,<br>05,06,07,08 | BD- 2 BFFA-LL7001                                                                   | BD- 2 AMMM-LL6A**<br>BD- 2 BMMM-LL7A**                                              | BD- 2 BMMA-LL7001                                                                     |
| 10A (BB)                                                                                                                             | 02,03,04                 | BB- 2 BFFA-LL7001                                                                   | BB- 2 AMMM-LL6A**<br>BB- 2 BMMM-LL7A**                                              | BB- 2 BMMA-LL7001                                                                     |

## Standard Size: 5/8"-27 UNS > In-line

| <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Male Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |                    | Overmolded with Cable --> <br>** Select cable length from 01~99m | Overmolded with Cable <br>** Select cable length from 01~99m | Field Installable  |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                              | Contacts ②         | Female Connector (F)<br>Male Contacts (M)                                                                                                         | Male Connector (M)<br>Female Contacts (F)                                                                                                     | Male Connector (M)<br>Female Contacts (F)                                                             |
| 5A (BD)                                                                                                                            | 02,03,04,<br>05,06 | BD-② AFMM-LL6A**<br>BD-② AFMM-LR7A**<br>BD-② BFMM-LL7A**<br>BD-② BFMM-LR6A**                                                                      | BD-② AMFM-LL6A**<br>BD-② BMFM-LL7A**                                                                                                          | BD-② BMFA-LL7001                                                                                      |
| 10A (BB)                                                                                                                           | 02,03              | BB-② AFMM-LL6A**<br>BB-② AFMM-LR7A**<br>BB-② BFMM-LL7A**<br>BB-② BFMM-LR6A**                                                                      | BB-02AMFM-LL6AXX<br>BB-02BMFM-LL7AXX<br>BB-03AMFM-LL6AXX<br>BB-03BMFM-LL7AXX                                                                  | BB-02BMFA-LL7001<br>BB-03BMFA-LL7001                                                                  |
| 5A+2A (BDU)                                                                                                                        | 08 (2+6)           | BDU-08AFMM-LL6A**<br>BDU-08AFMM-LR7A**<br>BDU-08BFMM-LL7A**                                                                                       | BDU-08AMFM-LL6AXX★<br>BDU-08BMFM-LL7AXX★                                                                                                      | BDU-08BMFA-LL7001                                                                                     |
| 10A+5A (BBD)                                                                                                                       | 06 (2+4)           | BBD-② AFMM-LL6A**<br>BBD-② AFMM-LR7A**<br>BBD-② BFMM-LL7A**<br>BBD-② BFMM-LR6A**                                                                  | BBD-06AMFM-LL6A**<br>BBD-06BMFM-LL7A**                                                                                                        | BBD-06BMFA-LL7001                                                                                     |

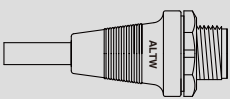
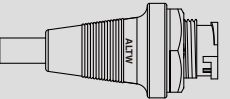
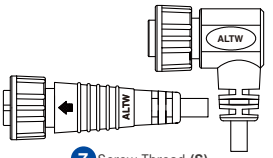
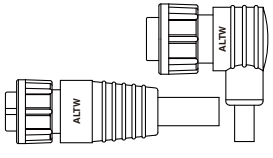
★ Upon request

⌋ **Standard Size: 5/8"-27 UNS > Receptacle and Mating Pair**

| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Male Contacts</li> <li>Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |  | <div> <div> Receptacle </div> <div> Overmolded with Cable </div> </div> |  | Field Installable |
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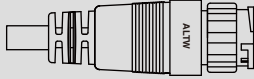
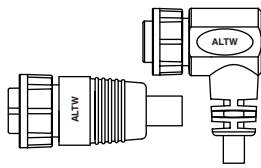
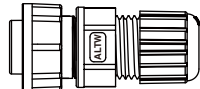
## Standard Size: 5/8"-27 UNS > Receptacle with Overmolded Cable and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |                          | Receptacle<br><br>7 Screw Thread (S)<br><br>7 2 Points Lock Bayonet (L)<br>** Select cable length from 01~99m | Overmolded with Cable<br><br>7 Screw Thread (S)<br><br>7 2 Points Lock Bayonet (L)<br>** Select cable length from 01~99m | Field Installable<br><br>7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                     | Contacts 2               | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                                         | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                                                  | Female Connector (F)<br>Female Contacts (F)                                                                                                                        |
| 2A (BU)                                                                                                                                                   | 10, 12                   | BU- 2 PMMM- 7 L7A**                                                                                                                                                                                                                                                             | BU- 2 AFFM- 7 L6A**<br>BU- 2 AFFM- 7 R7A**<br>BU- 2 BFFM- 7 L7A**                                                                                                                                                                                                                            | BU- 2 BFFA- 7 L7001                                                                                                                                                |
| 5A (BD)                                                                                                                                                   | 02,03,04,<br>05,06,07,08 | BD- 2 PMMM- 7 L7A**                                                                                                                                                                                                                                                             | BD- 2 AFFM- 7 L6A**<br>BD- 2 AFFM- 7 R7A**<br>BD- 2 BFFM- 7 L7A**<br>BD- 2 BFFM- 7 R6A**                                                                                                                                                                                                     | BD- 2 BFFA- 7 L7001                                                                                                                                                |
| 10A (BB)                                                                                                                                                  | 02,03,04                 | BB- 2 PMMM- 7 L7A**                                                                                                                                                                                                                                                             | BB- 2 AFFM- 7 L6A**<br>BB- 2 AFFM- 7 R7A**<br>BB- 2 BFFM- 7 L7A**<br>BB- 2 BFFM- 7 R6A**                                                                                                                                                                                                     | BB- 2 BFFA- 7 L7001                                                                                                                                                |

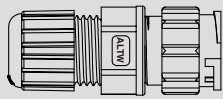
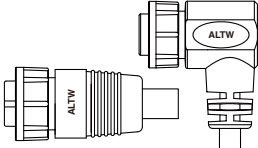
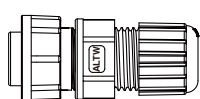
## Standard Size: 5/8"-27 UNS > Receptacle and Mating Pair

| <div> <div> <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> </div> <div> <p>Receptacle → Overmolded with Cable → Field Installable</p> <p>7 Screw Thread (S)</p> <p>7 2 Points Lock Bayonet (L)</p> <p>6 Choose the PCB Type (P/R) or Solder Type (S)</p> <p>7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S)</p> <p>** Selecting cable length from 01~99m</p> </div> </div> |                |                                              |                                                                                          |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------|
| Current Rating (Code)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Contacts 2     | Male Connector (M)<br>Female Contacts (F)    | Female Connector (F)<br>Male Contacts (M)                                                | Female Connector (F)<br>Male Contacts (M) |
| 5A (BD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 02,03,04,05,06 | BD- 2 PMF 6 - 7 C7001<br>BD- 2 RMFS- 7 C7001 | BD- 2 AFMM- 7 L6A**<br>BD- 2 AFMM- 7 R7A**<br>BD- 2 BFMM- 7 L7A**<br>BD- 2 BFMM- 7 R6A** | BD- 2 BFMA- 7 L7001                       |
| 10A (BB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 02,03          | BB- 2 PMF 6 - 7 C7001<br>BB- 2 RMFS- 7 C7001 | BB- 2 AFMM- 7 L6A**<br>BB- 2 AFMM- 7 R7A**<br>BB- 2 BFMM- 7 L7A**<br>BB- 2 BFMM- 7 R6A** | BB- 2 BFMA- 7 L7001                       |
| 5A+2A (BDU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 08 (2+6)       | BDU-08PMF 6 - 7 C7001<br>BDU-08RMFS- 7 C7001 | BDU-08AFMM- 7 L6A**<br>BDU-08AFMM- 7 R7A**<br>BDU-08BFMM- 7 L7A**                        | BDU-08BFMA- 7 L7001                       |
| 10A+5A (BBD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 06 (2+4)       | BBD-06PMF 6 - 7 C7001<br>BBD-06RMFS- 7 C7001 | BBD-06AFMM- 7 L6A**<br>BBD-06AFMM- 7 R7A**<br>BBD-06BFMM- 7 L7A**<br>BBD-06BFMM- 7 R6A** | BBD-06BFMA- 7 L7001                       |

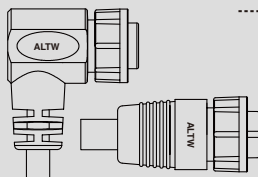
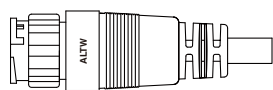
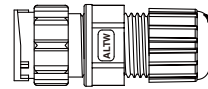
### Middle Size: 13/16"-28 UNS > In-line

|                                                                                                                                  |                   |                                                                                                             |                                                                                                          |                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Male Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |                   | Overmolded with Cable -->  | Overmolded with Cable  | Field Installable  |
| Current Rating (Code)           Contacts <b>2</b>                                                                                |                   | Male Connector (M)<br>Male Contacts (M)                                                                     | Female Connector (F)<br>Female Contacts (F)                                                              | Female Connector (F)<br>Female Contacts (F)                                                           |
| 5A (CD)                                                                                                                          | 07,08,09,10,12,14 | CD- <b>2</b> AMMM-LL7A**<br>CD- <b>2</b> BMMM-LL6A**                                                        | CD- <b>2</b> AFFM-LL7A**<br>CD- <b>2</b> BFFM-LL6A**<br>CD- <b>2</b> AFFM-LR7A**                         | CD- <b>2</b> BFFA-LL7001                                                                              |

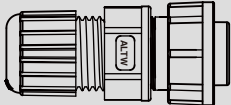
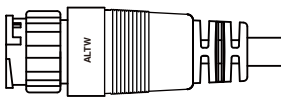
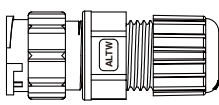
### Middle Size: 13/16"-28 UNS > In-line

|                                                                                                                                  |                   |                                                                                                      |                                                                                                           |                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Male Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |                   | Field Installable  | Overmolded with Cable  | Field Installable  |
| Current Rating (Code)           Contacts <b>2</b>                                                                                |                   | Male Connector (M)<br>Male Contacts (M)                                                              | Female Connector (F)<br>Female Contacts (F)                                                               | Female Connector (F)<br>Female Contacts (F)                                                            |
| 5A (CD)                                                                                                                          | 07,08,09,10,12,14 | CD- <b>2</b> BMMA-LL7001                                                                             | CD- <b>2</b> AFFM-LL7A**<br>CD- <b>2</b> AFFM-LR7A**<br>CD- <b>2</b> BFFM-LL6A**                          | CD- <b>2</b> BFFA-LL7001                                                                               |

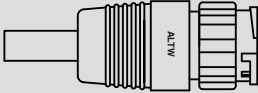
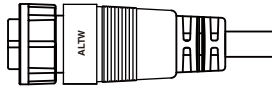
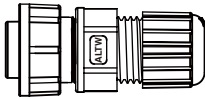
### Middle Size: 13/16"-28 UNS > In-line

|                                                                                                                                      |                   |                                                                                                               |                                                                                                            |                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Female Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |                   | Overmolded with Cable -->  | Overmolded with Cable  | Field Installable  |
| Current Rating (Code)           Contacts <b>2</b>                                                                                    |                   | Female Connector (F)<br>Female Contacts (F)                                                                   | Male Connector (M)<br>Male Contacts (M)                                                                    | Male Connector (M)<br>Male Contacts (M)                                                                 |
| 5A (CD)                                                                                                                              | 07,08,09,10,12,14 | CD- <b>2</b> AFFM-LL7A**<br>CD- <b>2</b> AFFM-LR7A**<br>CD- <b>2</b> BFFM-LL6A**                              | CD- <b>2</b> AMMM-LL7A**<br>CD- <b>2</b> BMMM-LL6A**                                                       | CD- <b>2</b> BMMA-LL7001                                                                                |

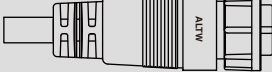
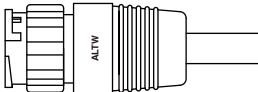
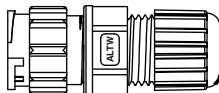
### Middle Size: 13/16"-28 UNS > In-line

|                                                                                                   |                       |                                                                                                            |                                                                                                                                                                      |                                                                                                              |
|---------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>• Female Connector (Housing)</b><br><b>• Female Contacts</b><br><b>• 2 Points Lock Bayonet</b> |                       | <b>Field Installable</b>  | <b>Overmolded with Cable</b> <br><small>** Select cable length from 01~99m</small> | <b>Field Installable</b>  |
| Current Rating (Code)                                                                             | Contacts <b>2</b>     | Female Connector (F)<br>Female Contacts (F)                                                                | Male Connector (M)<br>Male Contacts (M)                                                                                                                              | Male Connector (M)<br>Male Contacts (M)                                                                      |
| 5A (CD)                                                                                           | 07,08,09,<br>10,12,14 | CD- <b>2</b> BFFA-LL7001                                                                                   | CD- <b>2</b> AMMM-LL7A**<br>CD- <b>2</b> BMMM-LL6A**                                                                                                                 | CD- <b>2</b> BMMA-LL7001                                                                                     |

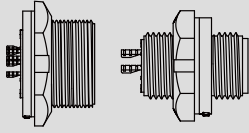
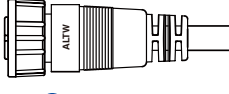
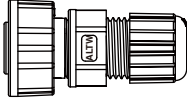
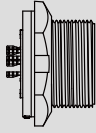
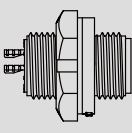
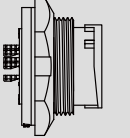
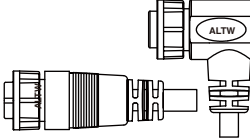
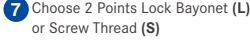
### Middle Size: 13/16"-28 UNS > In Line

|                                                                                                 |                   |                                                                                                                                                                      |                                                                                                                                                                      |                                                                                                               |
|-------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>• Male Connector (Housing)</b><br><b>• Female Contacts</b><br><b>• 2 Points Lock Bayonet</b> |                   | <b>Overmolded with Cable</b> <br><small>** Select cable length from 01~99m</small> | <b>Overmolded with Cable</b> <br><small>** Select cable length from 01~99m</small> | <b>Field Installable</b>  |
| Current Rating (Code)                                                                           | Contacts <b>2</b> | Male Connector (M)<br>Female Contacts (F)                                                                                                                            | Female Connector (F)<br>Male Contacts (M)                                                                                                                            | Female Connector (F)<br>Male Contacts (M)                                                                     |
| 5A (CD)                                                                                         | 07,08,09          | CD- <b>2</b> AMFM-LL7A**<br>CD- <b>2</b> BMFM-LL6A**                                                                                                                 | CD- <b>2</b> AFMM-LL7A**<br>CD- <b>2</b> BFMM-LL6A**                                                                                                                 | CD- <b>2</b> BFMA-LL7001                                                                                      |

### Middle Size: 13/16"-28 UNS > In Line

|                                                                                                 |                   |                                                                                                                                                                       |                                                                                                                                                                        |                                                                                                                |
|-------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>• Female Connector (Housing)</b><br><b>• Male Contacts</b><br><b>• 2 Points Lock Bayonet</b> |                   | <b>Overmolded with Cable</b> <br><small>** Select cable length from 01~99m</small> | <b>Overmolded with Cable</b> <br><small>** Select cable length from 01~99m</small> | <b>Field Installable</b>  |
| Current Rating (Code)                                                                           | Contacts <b>2</b> | Female Connector (F)<br>Male Contacts (M)                                                                                                                             | Male Connector (M)<br>Female Contacts (F)                                                                                                                              | Male Connector (M)<br>Female Contacts (F)                                                                      |
| 5A (CD)                                                                                         | 07,08,09          | CD- <b>2</b> AFMM-LL7A**<br>CD- <b>2</b> BFMM-LL6A**                                                                                                                  | CD- <b>2</b> AMFM-LL7A**<br>CD- <b>2</b> BMFM-LL6A**                                                                                                                   | CD- <b>2</b> BMFA-LL7001                                                                                       |

## Middle Size: 13/16"-28 UNS > Receptacle and Mating Pair

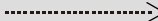
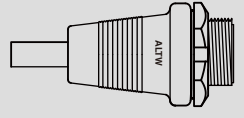
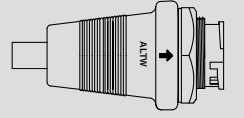
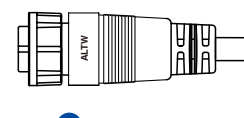
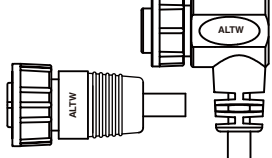
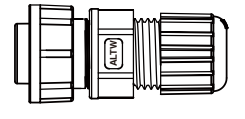
| <div> <div> <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> </div> <div> <div> Receptacle            </div> <div> Overmolded with Cable            </div> <div> Field Installable            </div> </div> </div> <div> <div> <div>  Front Fastened         </div> <div>  Rear Fastened         </div> </div> <div>  7 Screw Thread (S) </div> <div>  7 2 Points Lock Bayonet (L) </div> <div> 6 Choose PCB (P/R) or Solder Type (S) </div> </div> <div> <div>  7 Screw Thread (S) </div> <div>  7 2 Points Lock Bayonet (L) </div> <div> ** Select cable length from 01-99m </div> </div> <div> <div>  7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S) </div> </div> |
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**Middle Size: 13/16"-28 UNS**

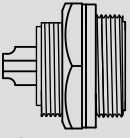
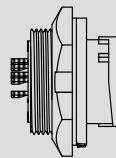
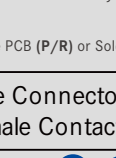
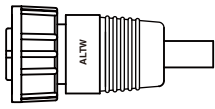
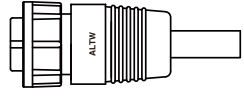
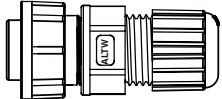
Receptacle with Overmolded Cable and Mating Pair  
Screw Thread & 2 Points Lock Bayonet

**IP 66 ~ 68** **9**  
Unmated or Mated

### Middle Size: 13/16"-28 UNS > Receptacle with Overmolded Cable and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |                   | Receptacle  Overmolded with Cable  Field Installable                                                                                 |                                                                                                                                                                                                                                                                                                          |                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                           |                   |  <p><b>7</b> Screw Thread (S)</p>  <p><b>7</b> 2 Points Lock Bayonet (L)</p> <p><small>** Select cable length from 01~99m</small></p> |  <p><b>7</b> Screw Thread (S)</p>  <p><b>7</b> 2 Points Lock Bayonet (L)</p> <p><small>** Select cable length from 01~99m</small></p> |  <p><b>7</b> Choose 2 Points Lock Bayonet (L) or Screw Thread (S)</p> |
| Current Rating (Code)                                                                                                                                     | Contacts <b>2</b> | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                                                                 | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                                                              | Female Connector (F)<br>Female Contacts (F)                                                                                                              |
| 5A (CD)                                                                                                                                                   | 07,08,09,10,12,14 | CD- <b>2</b> PMMM- <b>7</b> L7A**                                                                                                                                                                                                                                                                       | CD- <b>2</b> AFFM- <b>7</b> L7A**<br>CD- <b>2</b> BFFM- <b>7</b> L6A**<br>CD- <b>2</b> AFFM-LR7A**                                                                                                                                                                                                       | CD- <b>2</b> BFFA- <b>7</b> L7001                                                                                                                        |
| 10A (CB)                                                                                                                                                  | 04,05,06          | CB- <b>2</b> PMMM- <b>7</b> L7A**                                                                                                                                                                                                                                                                       | CB- <b>2</b> AFFM- <b>7</b> L7A**<br>CB- <b>2</b> BFFM- <b>7</b> L6A**                                                                                                                                                                                                                                   | CB- <b>2</b> BFFA- <b>7</b> L7001                                                                                                                        |
| 20A (CC)                                                                                                                                                  | 03                | CC-03PMMM-SL7A**                                                                                                                                                                                                                                                                                        | CC-03AFFM-SL7A**<br>CC-03BFFM-SL6A**                                                                                                                                                                                                                                                                     | CC-03BFFA-SL7001                                                                                                                                         |

## 

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |                        | Receptacle <br><br> | Overmolded with Cable <br> | Field Installable  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                                             |                        | 7 Screw Thread (S)<br>7 2 Points Lock Bayonet (L)<br>6 Choose PCB (P/R) or Solder Type (S)                                                                                                                                                                             | 7 Screw Thread (S)<br>7 2 Points Lock Bayonet (L)<br>** Select cable length from 01~99m                                                                                                       | 7 Choose 2 Points Lock Bayonet (L) or Screw Thread (S)                                                |
| Current Rating (Code)                                                                                                                                       | Contacts 2             | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                                                                              | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                     | Female Connector (F)<br>Male Contacts (M)                                                             |
| 5A (CD)                                                                                                                                                     | 07,08,09               | CD- 2 PMF 6 - 7 C7001<br>CD- 2 RMFS- 7 C7001                                                                                                                                                                                                                           | CD- 2 AFMM- 7 L7A**<br>CD- 2 BFMM- 7 L6A**                                                                                                                                                    | CD- 2 BFMA- 7 L7001                                                                                   |
| 5A+2A (CDU)                                                                                                                                                 | 12 (2+10)<br>14 (2+12) | CDU- 2 PMF 6 - 7 C7001                                                                                                                                                                                                                                                 | CDU- 2 AFMM- 7 L7A**<br>CDU- 2 BFMM- 7 L6A**<br>CDU- 2 BFMM- 7 L7A**                                                                                                                          | CDU- 2 BFMA- 7 L7001                                                                                  |
| 10A (CB)                                                                                                                                                    | 04,05                  | CB- 2 PMF 6 - 7 C7001<br>CB- 2 RMFS- 7 C7001                                                                                                                                                                                                                           | CB- 2 AFMM- 7 L7A**<br>CB- 2 BFMM- 7 L6A**                                                                                                                                                    | CB- 2 BFMA- 7 L7001                                                                                   |
| 10A+5A (CBD)                                                                                                                                                | 08 (2+6)               | CBD-08PMF 6 - 7 C7001                                                                                                                                                                                                                                                  | CBD-08AFMM- 7 L7A**<br>CBD-08BFMM- 7 L6A**                                                                                                                                                    | CBD-08BFMA- 7 L7001                                                                                   |
| 20A (CC)                                                                                                                                                    | 02                     | CC-02PMFS- LC7001                                                                                                                                                                                                                                                      | CC-02AFMM- LL7A**                                                                                                                                                                             | CC-02BFMA-LL7001                                                                                      |

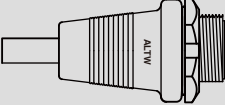
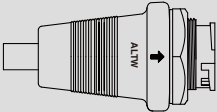
\* Design and specification are subject to change without notice.

Middle Size: 13/16"-28 UNS

Receptacle with Overmolded Cable and Mating Pair  
Screw Thread & 2 Points Lock Bayonet

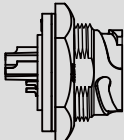
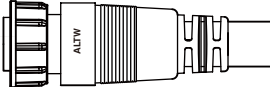
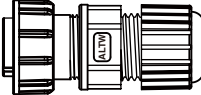
IP 66 ~ 68 9  
Unmated or Mated

➤ Middle Size: 13/16"-28 UNS > Receptacle with Overmolded Cable and Mating Pair

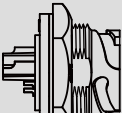
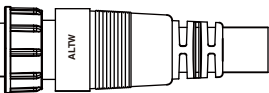
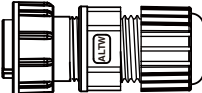
|                                                                                                                                                         |  |                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Female Contacts</li><li>• Screw Thread &amp; 2 Points Lock Bayonet</li></ul> |  | <p>Receptacle -----&gt; Overmolded with Cable -----&gt; Field Installable</p> <div><p>7 Screw Thread (S)</p></div> <div><p>7 2 Points Lock Bayonet (L)</p></div> <p>** Select cable length from 01~99m</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



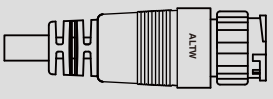
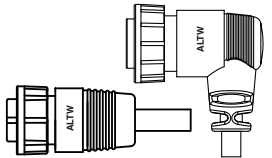
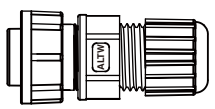
### Middle Size: 13/16"-28 UNS > Receptacle and Mating Pair

|                                                                                                                                               |          |                                                                                                         |                                                                                                                                                                   |                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Female Power+Male Signal</li><li>• 3 Points Lock Bayonet</li></ul> |          | <div>Receptacle</div>  | <div>Overmolded with Cable</div>  <div>** Select cable length from 01~99m</div> | <div>Field Installable</div>  |
| Current Rating (Code)                                                                                                                         | Contacts | Male Connector (M)<br>Female Power+Male Signal (D)                                                      | Female Connector (F)<br>Male Power+Female Signal (E)                                                                                                              | Female Connector (F)<br>Male Power+Female Signal (E)                                                             |
| 10A+2A (CBU)                                                                                                                                  | (3+5)    | CBU-08PMDS-TC7001                                                                                       | CBU-08AFEM-TL7A**                                                                                                                                                 | CBU-08BFEA-TL7001                                                                                                |

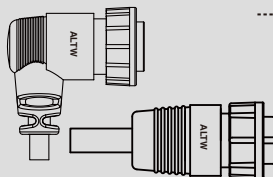
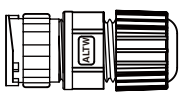
### Middle Size: 13/16"-28 UNS > Receptacle and Mating Pair

|                                                                                                                                               |          |                                                                                               |                                                                                                            |                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Male Power+Female Signal</li><li>• 3 Points Lock Bayonet</li></ul> |          | Receptacle  | Overmolded with Cable  | Field Installable  |
|                                                                                                                                               |          | ** Select cable length from 01~99m                                                            |                                                                                                            |                                                                                                         |
| Current Rating (Code)                                                                                                                         | Contacts | Male Connector (M)<br>Male Power+Female Signal (E)                                            | Female Connector (F)<br>Female Power+Male Signal (D)                                                       | Female Connector (F)<br>Female Power+Male Signal (D)                                                    |
| 10A+2A (CBU)                                                                                                                                  | (3+5)    | CBU-08PMES-TC7001                                                                             | CBU-08AFDM-TL7A**                                                                                          | CBU-08BFDA-TL7001                                                                                       |

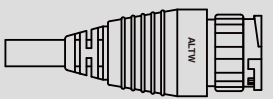
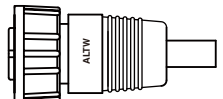
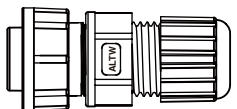
### Large Size: 1"-20 UNEF > In-line

|                                                                                                                                        |          |                                                                                                                                                                |                                                                                                                                                                 |                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable → <br><small>** Select cable length from 01~99m</small> | Overmolded with Cable → <br><small>** Select cable length from 01~99m</small> | Field Installable  |
| Current Rating (Code)                                                                                                                  | Contacts | Male Connector (M)<br>Male Contacts (M)                                                                                                                        | Female Connector (F)<br>Female Contacts (F)                                                                                                                     | Female Connector (F)<br>Female Contacts (F)                                                           |
| 5A (DD)                                                                                                                                | 18       | DD-18AMMM-LL7A**<br>DD-18BMMM-LL6A**                                                                                                                           | DD-18AFFM-LL7A**<br>DD-18AFFM-LR7A**<br>DD-18BFFM-LL6A**                                                                                                        | DD-18BFFA-LL7001                                                                                      |

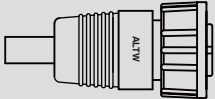
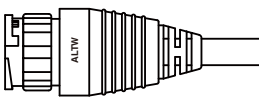
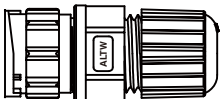
### Large Size: 1"-20 UNEF > In-line

|                                                                                                                                            |          |                                                                                                                                                                 |                                                                                                                                                                 |                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable → <br><small>** Select cable length from 01~99m</small> | Overmolded with Cable → <br><small>** Select cable length from 01~99m</small> | Field Installable  |
| Current Rating (Code)                                                                                                                      | Contacts | Female Connector (F)<br>Female Contacts (F)                                                                                                                     | Male Connector (M)<br>Male Contacts (M)                                                                                                                         | Male Connector (M)<br>Male Contacts (M)                                                                |
| 5A (DD)                                                                                                                                    | 18       | DD-18AFFM-LL7A**<br>DD-18AFFM-LR7A**<br>DD-18BFFM-LL6A**                                                                                                        | DD-18AMMM-LL7A**<br>DD-18BMMM-LL6A**                                                                                                                            | DD-18BMMA-LL7001                                                                                       |

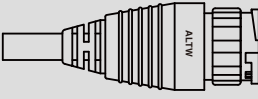
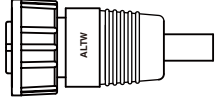
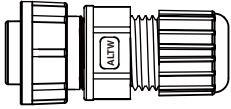
### Large Size: 1"-20 UNEF > In-line

|                                                                                                                                          |          |                                                                                                                                                                  |                                                                                                                                                                  |                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable → <br><small>** Select cable length from 01~99m</small> | Overmolded with Cable → <br><small>** Select cable length from 01~99m</small> | Field Installable  |
| Current Rating (Code)                                                                                                                    | Contacts | Male Connector (M)<br>Female Contacts (F)                                                                                                                        | Female Connector (F)<br>Male Contacts (M)                                                                                                                        | Female Connector (F)<br>Male Contacts (M)                                                               |
| 5A (DD)                                                                                                                                  | 18       | DD-18AMFM-LL7A**<br>DD-18BMFM-LL6A**                                                                                                                             | DD-18AFMM-LL7A**<br>DD-18BFMM-LL6A**                                                                                                                             | DD-18BFMA-LL7001                                                                                        |

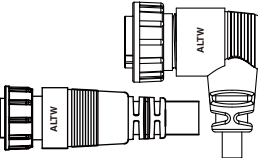
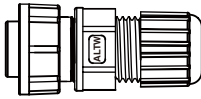
### Large Size: 1"-20 UNEF > In-line

| <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Male Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable  | Overmolded with Cable  | Field Installable  |
|------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                    |          | ** Select cable length from 01~99m                                                                      | ** Select cable length from 01~99m                                                                       |                                                                                                       |
| Current Rating (Code)                                                                                                              | Contacts | Female Connector (F)<br>Male Contacts (M)                                                               | Male Connector (M)<br>Female Contacts (F)                                                                | Male Connector (M)<br>Female Contacts (F)                                                             |
| 5A (DD)                                                                                                                            | 18       | DD-18AFMM-LL7A**<br>DD-18BFMM-LL6A**                                                                    | DD-18AMFM-LL7A**<br>DD-18BMFM-LL6A**                                                                     | DD-18BMFA-LL7001                                                                                      |

### Large Size: 1"-20 UNEF > In-line

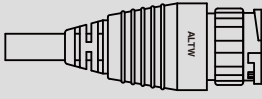
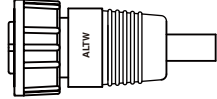
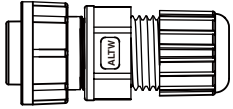
| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Female Power+Male Signal</li> <li>2 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable  | Overmolded with Cable  | Field Installable  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                                                                                                                             |          | ** Select cable length from 01~99m                                                                       | ** Select cable length from 01~99m                                                                        |                                                                                                        |
| Current Rating (Code)                                                                                                                       | Contacts | Male Connector (M)<br>Female Power+Male Signal (D)                                                       | Female Connector (F)<br>Male Power+Female Signal (E)                                                      | Female Connector (F)<br>Male Power+Female Signal (E)                                                   |
| 20A+2A (DCU)                                                                                                                                | (3+5)    | DCU-08AMDM-LL7B**                                                                                        | DCU-08AFEM-LL7B**                                                                                         | DCU-08BFEA-LL7001                                                                                      |
| 20A+5A (DCD)                                                                                                                                | (3+9)    | DCD-12AMDM-LL7A**                                                                                        | DCD-12AFEM-LL7A**<br>DCD-12AFEM-LR7A**                                                                    | DCD-12BFEA-LL7001                                                                                      |

### Large Size: 1"-20 UNEF > In-line

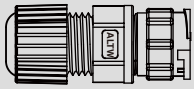
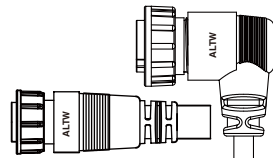
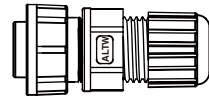
| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Female Power+Male Signal</li> <li>2 Points Lock Bayonet</li> </ul> |          | Field Installable  | Overmolded with Cable  | Field Installable  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                                             |          |                                                                                                       | ** Select cable length from 01~99m                                                                         |                                                                                                         |
| Current Rating (Code)                                                                                                                       | Contacts | Male Connector (M)<br>Female Power+Male Signal (D)                                                    | Female Connector (F)<br>Male Power+Female Signal (E)                                                       | Female Connector (F)<br>Male Power+Female Signal (E)                                                    |
| 20A+2A (DCU)                                                                                                                                | (3+5)    | DCU-08BMDB-LL7001                                                                                     | DCU-08AFEM-LL7B**                                                                                          | DCU-08BFEA-LL7001                                                                                       |
| 20A+5A (DCD)                                                                                                                                | (3+9)    | DCD-12BMDB-LL7001                                                                                     | DCD-12AFEM-LL7A**<br>DCD-12AFEM-LR7A**                                                                     | DCD-12BFEA-LL7001                                                                                       |

\* Design and specification are subject to change without notice.

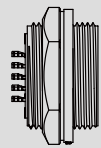
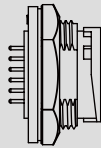
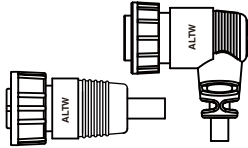
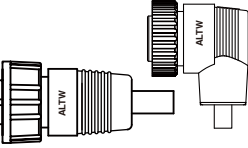
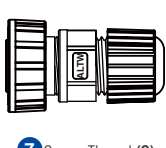
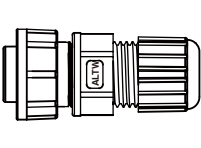
## Large Size: 1"-20 UNEF &gt; In-line

| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Male Power+Fmale Signal</li><li>• 2 Points Lock Bayonet</li></ul> |          | <div>Overmolded with Cable </div>  <div>** Select cable length from 01~99m</div> | <div>Overmolded with Cable </div>  <div>** Select cable length from 01~99m</div> | <div>Field Installable</div>  |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                        | Contacts | Male Connector (M)<br>Male Power+Fmale Signal(E)                                                                                                                                                                                                   | Female Connector (F)<br>Female Power+Male Signal(D)                                                                                                                                                                                                 | Female Connector (F)<br>Female Power+Male Signal(D)                                                              |
| 20A+2A (DCU)                                                                                                                                 | (3+5)    | DCU-08AMEM-LL7B**                                                                                                                                                                                                                                  | DCU-08AFDM-LL7B**                                                                                                                                                                                                                                   | DCU-08BFDA-LL7001                                                                                                |
| 20A+5A (DCD)                                                                                                                                 | (3+9)    | DCD-12AMEM-LL7A**                                                                                                                                                                                                                                  | DCD-12AFDM-LL7A**<br>DCD-12AFDM-LR7A**                                                                                                                                                                                                              | DCD-12BFDA-LL7001                                                                                                |

## Large Size: 1"-20 UNEF &gt; In-line

| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Male Power+Female Signal</li><li>• 2 Points Lock Bayonet</li></ul> |          | Field Installable                                                                  | Overmolded with Cable                                                                                                    | Field Installable                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                                               |          |  | <br>** Select cable length from 01~99m |  |
| Current Rating (Code)                                                                                                                         | Contacts | Male Connector (M)<br>Male Power+Female Signal (E)                                 | Female Connector (F)<br>Female Power+Male Signal (D)                                                                     | Female Connector (F)<br>Female Power+Male Signal (D)                                 |
| 20A+2A (DCU)                                                                                                                                  | (3+5)    | DCU-08BMEA-LL7001                                                                  | DCU-08AFDM-LL7B**                                                                                                        | DCU-08BFDA-LL7001                                                                    |
| 20A+5A (DCD)                                                                                                                                  | (3+9)    | DCD-12BMEA-LL7001                                                                  | DCD-12AFDM-LL7A**<br>DCD-12AFDM-LR7A**                                                                                   | DCD-12BFDA-LL7001                                                                    |

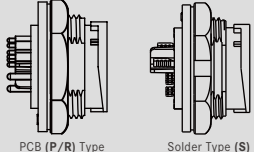
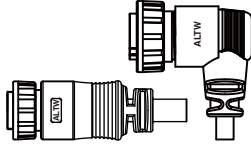
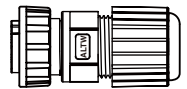
## Large Size: 1"-20 UNEF > Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |                       | Receptacle <div>  <p>7 Screw Thread (S)</p>  <p>7 2 Points Lock Bayonet (L)</p> <p>6 Choose PCB (P/R) or Solder Type (S)</p> </div> | Overmolded with Cable <div>  <p>7 Screw Thread (S)</p>  <p>7 2 Points Lock Bayonet (L)</p> <p>** Select cable length from 01~99m</p> </div> | Field Installable <div>  <p>7 Screw Thread (S)</p>  <p>7 2 Points Lock Bayonet (L)</p> </div> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                     | Contacts 2            | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                                                               | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                                                                     | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                         |
| 2A (DU)                                                                                                                                                   | 20,21,22              | DU- 2 PMM 6 - 7 C7001                                                                                                                                                                                                                                                                                 | DU- 2 AFFM- 7 L7A**<br>DU- 2 BFFM- 7 L6A**                                                                                                                                                                                                                                                                      | DU- 2 BFFA-SL7001                                                                                                                                                                                                                                                   |
| 5A (DD)                                                                                                                                                   | 18                    | DD-18PMM 6 - 7 C7001<br>DD-18RMMS- 7 C7001                                                                                                                                                                                                                                                            | DD-18AFFM- 7 L7A**<br>DD-18AFFM- 7 R7A**<br>DD-18BFFM- 7 L6A**                                                                                                                                                                                                                                                  | DD-18BFFA- 7 L7001                                                                                                                                                                                                                                                  |
| 20A (DC)                                                                                                                                                  | 02,03,04,<br>05,06,07 | DC- 2 PMM 6 - 7 C7001<br>DC- 2 PMM 6 - 7 S7001<br>DC- 2 RMMS- 7 C7001                                                                                                                                                                                                                                 | DC- 2 AFFM- 7 L7A**<br>DC- 2 BFFM- 7 L6A**                                                                                                                                                                                                                                                                      | DC- 2 BFFA- 7 L7001<br>DC-02BFFB- 7 L7001                                                                                                                                                                                                                           |

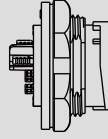
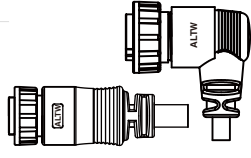
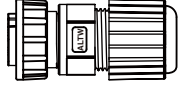
\* Design and specification are subject to change without notice.

|                                                                                                                                                             |            | Receptacle                                                                                                                                                                                                                                                                    | Overmolded with Cable                                                                                                                                                                                                                                                      | Field Installable                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread &amp; 2 Points Lock Bayonet</li> </ul> |            |  <p>7 Screw Thread (S)</p>  <p>7 2 Points Lock Bayonet (L)</p> <p>6 Choose PCB (P/R) or Solder Type (S)</p> |  <p>7 Screw Thread (S)</p>  <p>7 2 Points Lock Bayonet (L)</p> <p>** Select cable length from 01~99m</p> |  <p>7 Screw Thread (S)</p>  <p>7 2 Points Lock Bayonet (L)</p> |
| Current Rating (Code)                                                                                                                                       | Contacts 2 | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                                                                                     | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                                                                                  | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                                            |
| 5A (DD)                                                                                                                                                     | 18         | DD-18PMF 6 - 7 C7001<br>DD-18PMF 6 - 7 S7001<br>DD-18RMFS - 7 C7001                                                                                                                                                                                                           | DD-18AFMM- 7 L7A**<br>DD-18BFMM- 7 L6A**                                                                                                                                                                                                                                   | DD-18BFMA- 7 L7001                                                                                                                                                                                                                   |
| 5A (DSD)<br>*Metal                                                                                                                                          | 18         | DSD-18PMF 6 - SS8001<br>DSD-18PMF 6 - SS8002                                                                                                                                                                                                                                  | DSD-18BFMM-SL6A**<br>DSD-18BFMM-SR6A**                                                                                                                                                                                                                                     | -                                                                                                                                                                                                                                    |
| 20A (DC)                                                                                                                                                    | 02,03      | DC- 2 PMFP- 7 C7001                                                                                                                                                                                                                                                           | DC- 2 AFMM- 7 L7AXX<br>DC- 2 BFMM- 7 L6AXX                                                                                                                                                                                                                                 | DC- 2 BFMB- 7 L7001                                                                                                                                                                                                                  |

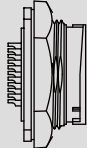
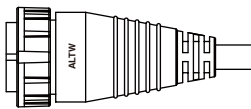
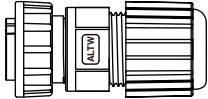
### Large Size: 1"-20UNEF > Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Female Power+Male Signal</li> <li>2 Points Lock Bayonet</li> </ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>  | <b>Field Installable</b>  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                                                                                                                             |          | PCB (P/R) Type      Solder Type (S)<br><b>6</b> Choose PCB (P/R) or Solder Type (S)                 | ** Select cable length from 01~99m                                                                              |                                                                                                              |
| Current Rating (Code)                                                                                                                       | Contacts | Male Connector (M)<br>Female Power+Male Signal (D)                                                  | Female Connector (F)<br>Male Power+Female Signal (E)                                                            | Female Connector (F)<br>Male Power+Female Signal (E)                                                         |
| 20A+2A (DCU)                                                                                                                                | (3+5)    | DCU-08PMDS-LC7001                                                                                   | DCU-08AFEM-LL7B**                                                                                               | DCU-08BFEA-LL7001                                                                                            |
| 20A+5A (DCD)                                                                                                                                | (3+9)    | DCD-12PMD <b>6</b> -LC7001                                                                          | DCD-12AFEM-LL7A**<br>DCD-12AFEM-LR7A**                                                                          | DCD-12BFEA-LL7001                                                                                            |

### Large Size: 1"-20 UNEF > Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Male Power+Female Signal</li> <li>2 Points Lock Bayonet</li> </ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>  | <b>Field Installable</b>  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|                                                                                                                                             |          |                                                                                                      | ** Select cable length from 01~99m                                                                              |                                                                                                               |
| Current Rating (Code)                                                                                                                       | Contacts | Male Connector (M)<br>Male Power+Female Signal (E)                                                   | Female Connector (F)<br>Female Power+Male Signal (D)                                                            | Female Connector (F)<br>Female Power+Male Signal (D)                                                          |
| 20A+2A (DCU)                                                                                                                                | (3+5)    | DCU-08PMES-LC7001                                                                                    | DCU-08AFDM-LL7B**                                                                                               | DCU-08BFDA-LL7001                                                                                             |
| 20A+5A (DCD)                                                                                                                                | (3+9)    | DCD-12PMES-LC7001                                                                                    | DCD-12AFDM-LL7A**<br>DCD-12AFDM-LR7A**                                                                          | DCD-12BFDA-LL7001                                                                                             |

### Macro Size: 1 3/16"-20 UNS > Receptacle and Mating pair

| <ul style="list-style-type: none"> <li>Male Connector (Housing)</li> <li>Female Contacts</li> <li>2 Points Lock Bayonet</li> </ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>  | <b>Field Installable</b>  |
|------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|                                                                                                                                    |          | <b>6</b> Choose PCB (P) or Solder Type (S)                                                            | ** Select cable length from 01~99m                                                                                |                                                                                                                |
| Current Rating (Code)                                                                                                              | Contacts | Male Connector (M)<br>Female Contacts (F)                                                             | Female Connector (F)<br>Male Contacts (M)                                                                         | Female Connector (F)<br>Male Contacts (M)                                                                      |
| 5A (ED)                                                                                                                            | 31       | ED-31PMF <b>6</b> -LS7001                                                                             | ED-31AFMM-LL7A**                                                                                                  | -                                                                                                              |

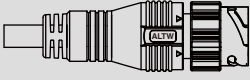
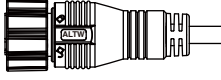
\* Design and specification are subject to change without notice.

## Other Size

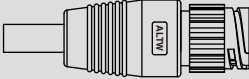
In-line  
2 & 3 Points Lock Bayonet

**IP 66 ~ 68** 9  
Unmated or Mated

### Other Size > In-line

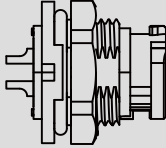
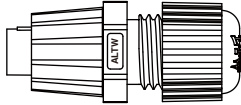
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Power+Male Signal</li> <li>• 3 Points Lock Bayonet</li> </ul> |          | <b>Receptacle</b> <br>** Select cable length from 01~99m | <b>Overmolded with Cable</b> <br>** Select cable length from 01~99m | <b>Field Installable</b>                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Current Rating (Code)                                                                                                                             | Contacts | Male Connector (M)<br>Male Contacts (M)                                                                                                   | Female Connector (F)<br>Female Contacts (F)                                                                                                          | Female Connector (F)<br>Female Contacts (F) |
| 5A (GBD)                                                                                                                                          | 08       | GBD-08AMMM-TL8A**<br>GBD-08BMMM-TL7A**                                                                                                    | GBD-08AFFM-TL8A**<br>GBD-08BFFM-TL7A**                                                                                                               | -                                           |

### Other Size > In-line

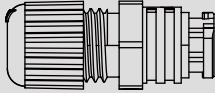
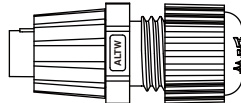
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Power+Male Signal</li> <li>• 2 Points Lock Bayonet</li> </ul> |          | <b>Receptacle</b> <br>** Select cable length from 01~99m | <b>Overmolded with Cable</b> <br>** Select cable length from 01~99m | <b>Field Installable</b>                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Current Rating (Code)                                                                                                                             | Contacts | Male Connector (M)<br>Female Contacts (F)                                                                                                   | Female Connector (F)<br>Male Contacts (M)                                                                                                              | Female Connector (F)<br>Male Contacts (M) |
| 10A (MAB)                                                                                                                                         | 04       | MAB-04AMFM-LL7A**<br>MAB-04BMFM-LL6A**                                                                                                      | MAB-04AFMM-LL7A**<br>MAB-04BFMM-LL6A**                                                                                                                 | -                                         |



### Other Size > Receptacle and Mating Pair

|                                                                                                                              |                   |                                                                                              |                                                                                                     |                                           |
|------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Push Lock</li> </ul> |                   | Receptacle  | Field Installable  | Field Installable                         |
| Current Rating (Code)                                                                                                        | Contacts <b>2</b> | Male Connector (M)<br>Female Contacts (F)                                                    | Female Connector (F)<br>Male Contacts (M)                                                           | Female Connector (F)<br>Male Contacts (M) |
| 5A (PLD)                                                                                                                     | 02,03,04          | PLD- <b>2</b> PMFS-QC7001                                                                    | PLD- <b>2</b> BFMA-QL7001                                                                           | -                                         |

### Other Size > In-line

|                                                                                                                              |                   |                                                                                                      |                                                                                                      |                                           |
|------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Push Lock</li> </ul> |                   | Field Installable  | Field Installable  | Field Installable                         |
| Current Rating (Code)                                                                                                        | Contacts <b>2</b> | Male Connector (M)<br>Female Contacts (F)                                                            | Female Connector (F)<br>Male Contacts (M)                                                            | Female Connector (F)<br>Male Contacts (M) |
| 5A (PLD)                                                                                                                     | 02,03,04          | PLD- <b>2</b> BMFA-QL7001                                                                            | PLD- <b>2</b> BFMA-QL7001                                                                            | -                                         |

## Power Connector

PWE, PWF, PWG



PWC, PWCU



PWL



PWJ, PWH

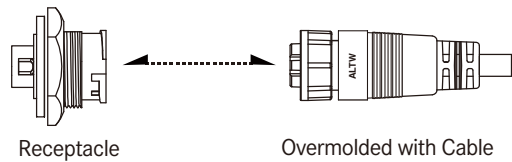


PWCU

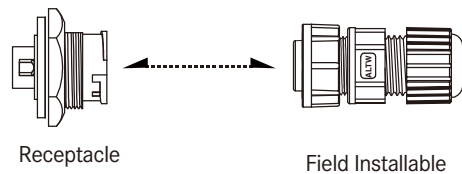


# Range Overview

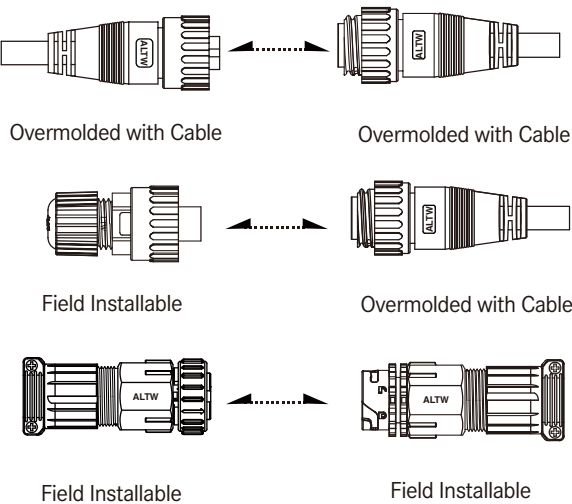
## Receptacle to Overmolded with Cable



## Receptacle to Field Installable



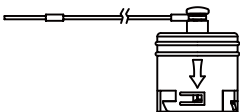
## In Line



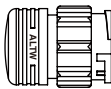
## Accessories



Waterproof Cap  
See page 21-13



Waterproof Cap  
See page 21-13



Waterproof Cap  
See page 21-13

\* Design and specification are subject to change without notice.

## Specification

|                              |                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | Power Connector                                                                                           |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable                                                  |
| <b>Current Rating / Data</b> | 8A, 12A, 16A, 20A, 25A, 30A, 10A+2A, 20A+2A                                                               |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : Nylon+GF, UL<br>Recognized, PPE         |
| <b>Waterproof Rating</b>     | IP66~68                                                                                                   |
| <b>Temperature Range</b>     | Receptacle : -40°C ~ +105°C<br>Overmolded with Cable : -20°C ~ +80°C<br>Field Installable : -40 °C~105 °C |
| <b>Contact Resistance</b>    | ≤ 5mΩ                                                                                                     |
| <b>Insulation Resistance</b> | ≥ 100MΩ at DC500V                                                                                         |
| <b>Durability</b>            | 500 cycles                                                                                                |
| <b>Breakdown Voltage</b>     | ≥ AC1000V / 1 minute                                                                                      |
| <b>More to know</b>          | Standard Cable Length: 01~99M                                                                             |

# Ordering Information

| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|----|
| <b>Specification / Current Rating</b><br>(PWE) 8A (PWCU) 20A+2A<br>(PWF) 12A (PWG) 16A<br>(PWC) 20A (PWJ) 30A*<br>(PWH) 25A (PWL) 30A*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts</b><br>02, 03, 04, 05, 06, 07....<br>EX. (02) = 2 Contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b><br><div> <div> <u>&gt; For Receptacle</u><br/>           (P) Front Fastened<br/>           (R) Rear Fastened         </div> <div> <u>&gt; For Overmolded with Cable</u><br/>           (A) With Strain Relief<br/>           (B) Without Strain Relief<br/> <u>&gt; For Field installable</u><br/>           (B) Without Strain Relief         </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b><br>(M) Male Connector (F) Female Connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender</b><br>(M) Male (C) Combo<br>(F) Female                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b><br><div> <div> <u>&gt; For Receptacle</u><br/>           (S) Solder Type<br/>           (B) Screw in Type<br/>           (C) Crimp Type         </div> <div> <u>&gt; For Overmolded with Cable</u><br/>           (M) Overmolded with Cable<br/> <u>&gt; For Field Installable</u><br/>           (A) Field installable (Solder)<br/>           (B) Screw in Type<br/>           (C) Crimp Type         </div> </div>                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b><br>(S) Screw Thread (L) 2 or 3 Points Lock Bayonet<br>(T) 3 Points Lock Bayonet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b><br><div> <div> <u>&gt; For Receptacle</u><br/>           (C) Circular<br/>           (S) Square         </div> <div> <u>&gt; For Overmolded with Cable</u><br/>           (L) Straight<br/>           (R) Right Angle         </div> <div> <u>&gt; For Field Installable</u><br/>           (L) Straight<br/>           (R) Right Angle         </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b><br>(6) IP 66<br>(7) IP 67<br>(8) IP 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |    |
| <b>More Information</b><br><div> <div> <u>&gt; For Receptacle</u><br/>           001, 002, 003.....<br/>           Without Cable : Different Versions         </div> <div> <u>&gt; For Overmolded with Cable</u><br/>           (□)+(■) : Cable Type + Cable Length<br/>           EX. (A01) = UL2464 Cable + 1M<br/> <div> <div> <u>(□) : Cable Type</u><br/>           (A) UL2464 Cable<br/>           (B) Power Cable(TC-ER)<br/>           (C) SJTOW Cable         </div> <div> <u>(■) : Cable Length</u><br/>           (D) SJTW Cable From 1M to 99M<br/>           (E) H05 Cable<br/>           (F) H07 Cable         </div> </div> </div> <div> <u>&gt; For Field Installable</u><br/>           (001) Cable OD range 12-16mm<br/>           (002) Cable OD range 09-12mm         </div> </div> |   |   |   |   |   |   |   |   |    |

\* 30A (PWJ) Recommended For Inverter Application

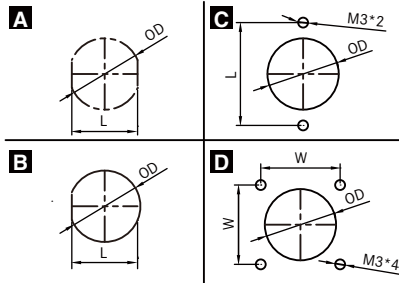
\* 30A (PWL) Recommended For LED Application

\* Design and specification are subject to change without notice.

## Physical Dimension

### Receptacle Cut-Out

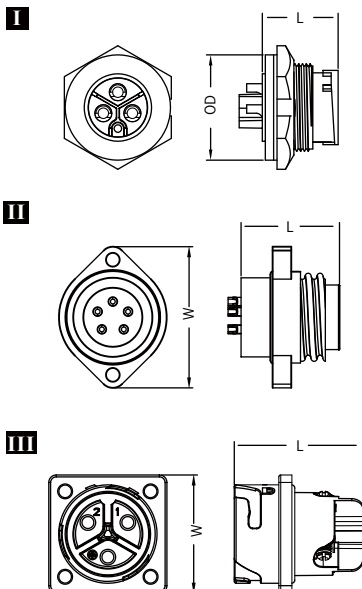
Panel Cut-Out



| Connector(Housing)<br>Gender<br>Current Rating | Type | L / W |       | OD | L / W  |       | OD |
|------------------------------------------------|------|-------|-------|----|--------|-------|----|
|                                                |      | Male  |       |    | Female |       |    |
| 8A (PWE)                                       | C    | 31.1  | 21.55 |    | 31.1   | 21.55 |    |
| 12A (PWF)                                      | C    | 31.1  | 21.55 |    | 31.1   | 21.55 |    |
| 16A (PWG)                                      | C    | 31.1  | 21.60 |    | 31.1   | 21.60 |    |
| 20A (PWC)                                      | B    | 19.4  | 20.80 |    | -      | -     |    |
| 25A (PWH)                                      | B    | 30.2  | 32.00 |    | -      | -     |    |
|                                                | A    | 23.2  | 25.20 |    | -      | -     |    |
| 20A+2A (PWCU)                                  | B    | 19.4  | 20.80 |    | -      | -     |    |
| 30A (PWL)                                      | D    | 23.0  | 23.00 |    | -      | -     |    |
| 30A (PWJ)                                      | A    | 23.2  | 25.20 |    | -      | -     |    |

Dimensions are shown in millimeters

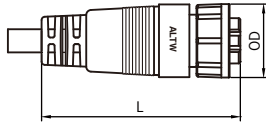
### Connector Dimension



| Connector(Housing)<br>Gender<br>Current Rating | Type | L      |       | OD / W |       | Recommend<br>Panel<br>Thickness |
|------------------------------------------------|------|--------|-------|--------|-------|---------------------------------|
|                                                |      | Female | Male  | Female | Male  | Female<br>& Male                |
| 8A (PWE)                                       | II   | 27.50  | 26.50 | 38.00  | 38.00 | -                               |
| 12A (PWF)                                      | II   | 27.50  | 26.50 | 38.00  | 38.00 | -                               |
| 16A (PWG)                                      | II   | 32.40  | 31.00 | 38.00  | 38.00 | -                               |
| 20A (PWC)                                      | I    | -      | 18.00 | -      | 25.00 | 4.5 mm Max.                     |
| 25A (PWH)                                      | I    | -      | 55.00 | -      | 40.00 | 5.0 mm Max.                     |
|                                                |      | -      | 47.00 | -      | 35.00 | 0.5~8 mm                        |
| 20A+2A (PWCU)                                  | I    | -      | 18.00 | -      | 25.00 | 4.5 mm Max.                     |
| 30A (PWL)                                      | III  | -      | 34.60 | -      | 31.80 | -                               |
| 30A (PWJ)                                      | I    | -      | 47.00 | -      | 35.00 | 0.5~8 mm                        |

Dimensions are shown in millimeters

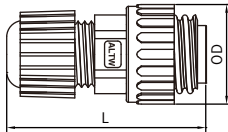
## Overmolded with Cable



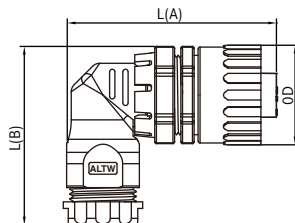
| Connector(Housing)<br>Gender<br>Current Rating | L      |       | OD                   |       |
|------------------------------------------------|--------|-------|----------------------|-------|
|                                                | Female | Male  | Female               | Male  |
| 8A (PWE)                                       | 70.3   | 72.0  | 30.2                 | 30.2  |
| 12A (PWF)                                      | 70.3   | 72.0  | 30.2                 | 30.2  |
| 20A (PWC)                                      | 60.0   | 65.5  | 22.2 (L)<br>23.0 (T) | 18.0  |
| 25A (PWH)                                      | 91.55  | 100.4 | 40.0                 | 31.75 |
| 20A+2A (PWCU)                                  | 60.0   | 65.5  | 22.2                 | 18.0  |

\* (L) 2 Points Lock Bayonet | (T) 3 Points Lock Bayonet

## Field Installable



(See 3rd top-right hand chart)



(See bottom right hand chart)

| Connector(Housing)<br>Gender<br>Current Rating | L      |      | OD     |      |
|------------------------------------------------|--------|------|--------|------|
|                                                | Female | Male | Female | Male |
| 8A (PWE)                                       | 60.7   | 60.4 | 30.2   | 30.2 |
| 12A (PWF)                                      | 60.7   | 60.4 | 30.2   | 30.2 |
| 16A (PWG)                                      | 67.0   | 67.0 | 30.2   | 30.2 |
| 20A (PWC)                                      | 48.15  | -    | 22.2   | -    |
| 20A+2A (PWCU)                                  | 88.4   | 91.0 | 33.0   | 26.9 |
|                                                | 48.15  | -    | 22.2   | -    |
| 25A (PWH)                                      | 87.4   | 84.1 | 38.0   | 38.0 |
| 30A (PWL)                                      | 92.14  | -    | 35.2   | -    |
| 30A (PWJ)                                      | 87.4   | 84.1 | 38.0   | 38.0 |

| Connector(Housing)<br>Gender<br>Current Rating | L [A]         | L [B]         | OD            |
|------------------------------------------------|---------------|---------------|---------------|
|                                                | Female / Male | Female / Male | Female / Male |
| 16A (PWG)                                      | 62.0          | 54.0          | 30.2          |

Dimensions are shown in millimeters

# Contact Configuration

|                    | 8A<br>(PWE)                                                                                      |          | 12A<br>(PWF)                                                                                   |          | 16A<br>(PWG)                                                                           |          | 20A<br>(PWC)                                                                                |                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 4 5                | MM or FF                                                                                         | MF or FM | MM or FF                                                                                       | MF or FM | MM or FF                                                                               | MF or FM | MM or FF                                                                                    | MF or FM                                                                                     |
| 2Contacts<br>(02)  |                                                                                                  |          | <br>R   C   F |          |                                                                                        |          |                                                                                             |                                                                                              |
| 3Contacts<br>(03)  |                                                                                                  |          | <br>R   C   F |          |                                                                                        |          | <br>R   C | <br>R   C |
| 4Contacts<br>(04)  |                                                                                                  |          | <br>R   C   F |          | <br>F |          |                                                                                             |                                                                                              |
| 5Contacts<br>(05)  | <br>R   C   F   |          |                                                                                                |          |                                                                                        |          |                                                                                             |                                                                                              |
| 6Contacts<br>(06)  | <br>R   C   F |          |                                                                                                |          |                                                                                        |          |                                                                                             |                                                                                              |
| 7Contacts<br>(07)  | <br>R   C   F |          |                                                                                                |          |                                                                                        |          |                                                                                             |                                                                                              |
| 12Contacts<br>(12) |                                                                                                  |          |                                                                                                |          |                                                                                        |          |                                                                                             |                                                                                              |



| 25A<br>(PWH)                                                                      |                                                                                   |  | 20A+2A<br>(PWCU)                                                                    |                                                                                   |   | 30A<br>(PWL)/(PWJ)                                                                |                                                                                   |   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|
| MM or FF                                                                          | MF or FM                                                                          |  | MM or FF                                                                            | MF or FM                                                                          |   | MM or FF                                                                          | MF or FM                                                                          |   |
|                                                                                   |                                                                                   |  |                                                                                     |                                                                                   |   |                                                                                   |                                                                                   |   |
|  |                                                                                   |  |                                                                                     |                                                                                   |   |  |  |   |
| R                                                                                 | C                                                                                 |  |                                                                                     |                                                                                   |   | R                                                                                 | F                                                                                 |   |
|                                                                                   |                                                                                   |  |    |  |   |                                                                                   |                                                                                   |   |
|                                                                                   |                                                                                   |  | R                                                                                   | C                                                                                 | F | R                                                                                 | C                                                                                 | F |
|  |  |  |                                                                                     |                                                                                   |   |                                                                                   |                                                                                   |   |
| R                                                                                 | F                                                                                 |  | R                                                                                   | F                                                                                 |   |                                                                                   |                                                                                   |   |
|                                                                                   |                                                                                   |  |                                                                                     |                                                                                   |   |                                                                                   |                                                                                   |   |
|                                                                                   |                                                                                   |  |                                                                                     |                                                                                   |   |                                                                                   |                                                                                   |   |
|                                                                                   |                                                                                   |  |  |                                                                                   |   |                                                                                   |                                                                                   |   |
|                                                                                   |                                                                                   |  |                                                                                     | F                                                                                 |   |                                                                                   |                                                                                   |   |

R: receptacle

C: overmolded with cable

F: field installable

-  8A (PWE) 1  
 12A (PWF)  
 16A (PWG)  
 20A (PWC)  
 25A (PWH)  
 20A+2A (PWCU)  
 30A (PWL)

Number of Contacts: 2

Ex.2 contacts (02)

Connector (Housing) Gender: 4

Male(M) or Female(F)

Contact Gender: 5

Male(M) or Female(F)

More to Choose: 6

- Solder (S)
  - Solder Cup
  - Solder Contact



- Screw In (B)

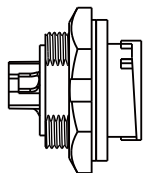


- Crimped (C)



## Product Features

### ┘ Receptacle



#### Backshell 8



Circular (C)



Square (S)

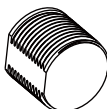
#### Mating Style 7



2 Points Lock Bayonet (L)

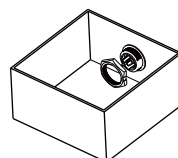


3 Points Lock Bayonet (T)  
(With or without Unlocking  
Tool)

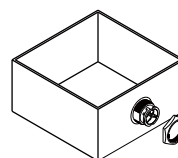


Screw Thread (S)

#### Connector Body(Style) 3

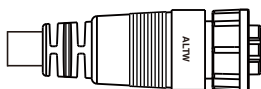


Rear Fastened (R)



Front Fastened (P)

### ┘ Overmolded with Cable



#### Backshell 8



Straight  
(L)

#### Mating Style 7



2 Points Lock Bayonet (L)



Screw Thread (S)

#### Connector Body(Style) 3

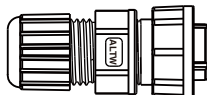


With Strain Relief (A)



Without Strain Relief (B)

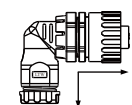
### ┘ Field Installable



#### Backshell 8



Straight  
(L)



Right Angle  
(R)

#### Mating Style 7



2 Points Lock Bayonet (L)

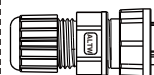


3 Points Lock Bayonet (T)  
(With or without Unlocking  
Tool)



Screw Thread (S)

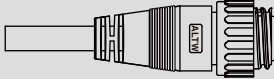
#### Connector Body(Style) 3



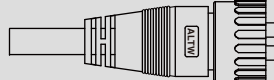
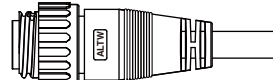
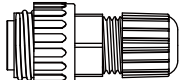
Without Strain Relief (B)

# Find Our Standard Products

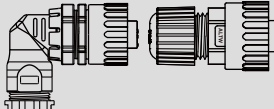
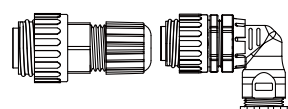
## └ In-line

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread</li> </ul> |            | Overmolded with Cable                                                             | Overmolded with Cable                                                              | Field Installable                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                               |            |  |  |  |
|                                                                                                                               |            | ** Selecting the proper cable length from 1~99m for your connector                | ** Selecting the proper cable length from 1~99m for your connector                 |                                                                                     |
| Current Rating (Code)                                                                                                         | Contacts ② | Male Connector (M)<br>Male Contacts (M)                                           | Female Connector (F)<br>Female Contacts (F)                                        | Female Connector (F)<br>Female Contacts (F)                                         |
| 8A (PWE)                                                                                                                      | 05,06,07   | PWE- ② AMMM-SL7A**                                                                | PWE- ② AFFM-SL7A**                                                                 | PWE- ② BFFA-SL7001                                                                  |
| 12A (PWF)                                                                                                                     | 02,03,04   | PWF- ② AMMM-SL7A**                                                                | PWF- ② AFFM-SL7A**                                                                 | PWF- ② BFFA-SL7001                                                                  |
| 25A (PWH)                                                                                                                     | 03         | PWH-03AMMM-SL7A**                                                                 | PWH-03AFFM-SL7A**                                                                  | -                                                                                   |

## └ In-line

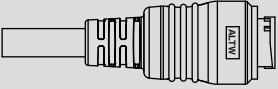
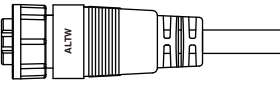
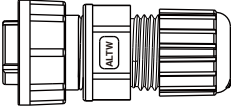
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> </ul> |            | Overmolded with Cable                                                              | Overmolded with Cable                                                               | Field Installable                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                                   |            |  |  |  |
|                                                                                                                                   |            | ** Selecting the proper cable length from 1~99m for your connector                 | ** Selecting the proper cable length from 1~99m for your connector                  |                                                                                      |
| Current Rating (Code)                                                                                                             | Contacts ② | Female Connector (F)<br>Female Contacts (F)                                        | Male Connector (M)<br>Male Contacts (M)                                             | Male Connector (M)<br>Male Contacts (M)                                              |
| 8A (PWE)                                                                                                                          | 05,06,07   | PWE- ② AFFM-SL7A**                                                                 | PWE- ② AMMM-SL7A**                                                                  | PWE- ② BMMA-SL7001                                                                   |
| 12A (PWF)                                                                                                                         | 02,03,04   | PWF- ② AFFM-SL7A**                                                                 | PWF- ② AMMM-SL7A**                                                                  | PWF- ② BMMA-SL7001                                                                   |
| 25A (PWH)                                                                                                                         | 03         | PWH-03AFFM-SL7A**                                                                  | PWH-03AMMM-SL7A**                                                                   | -                                                                                    |

## └ In-line

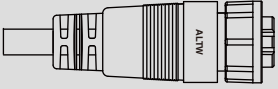
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> </ul> |            | Field Installable                                                                                                             | Overmolded with Cable                                                                | Field Installable                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                   |            |                                            |  |                                          |
|                                                                                                                                   |            | ⑧ Choose straight (L) or right angle (R)<br>*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003) |                                                                                      | ⑧ Choose straight (L) or right angle (R)<br>*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003) |
| Current Rating (Code)                                                                                                             | Contacts ② | Female Connector (F)<br>Female Contacts (F)                                                                                   | Male Connector (M)<br>Male Contacts (M)                                              | Male Connector (M)<br>Male Contacts (M)                                                                                       |
| 8A (PWE)                                                                                                                          | 05~07      | PWE- ② BFFA-SL7001                                                                                                            | -                                                                                    | PWE- ② BMMA-SL7001                                                                                                            |
| 12A (PWF)                                                                                                                         | 02~04      | PWF- ② BFFA-SL7001                                                                                                            | -                                                                                    | PWF- ② BMMA-SL7001                                                                                                            |
| 16A (PWG)                                                                                                                         | 04         | PWG-04BFFB-S ⑧ 7***                                                                                                           | -                                                                                    | PWG-04BMMB-S ⑧ 7***                                                                                                           |

\* Design and specification are subject to change without notice.

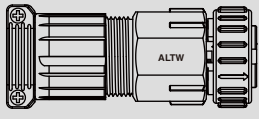
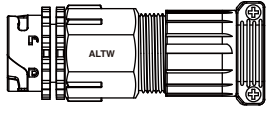
## In-line

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet &amp; 3 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable                                                               | Overmolded with Cable                                                              | Field Installable  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                    |          | ** Selecting the proper cable length from 1~99m for your connector                                                                                                   | ** Selecting the proper cable length from 1~99m for your connector                                                                                                   | *** Selecting UL (002) or Non-UL (001)                                                                |
| Current Rating (Code)                                                                                                                                              | Contacts | Male Connector (M)<br>Male Contacts (M)                                                                                                                              | Female Connector (F)<br>Female Contacts (F)                                                                                                                          | Female Connector (F)<br>Female Contacts (F)                                                           |
| 20A (PWC)                                                                                                                                                          | 03       | PWC-03AMMM-LL7A**<br>PWC-03AMMM-LL7B**<br>PWC-03AMMM-LL7D**<br>PWC-03AMMM-LL7E**<br>PWC-03BMMM-LL7D**<br>PWC-03BMMM-LL7E**<br>PWC-03AMMM-TL7A**<br>PWC-03AMMM-TL7B** | PWC-03AFFM-LL7A**<br>PWC-03AFFM-LL7B**<br>PWC-03AFFM-LL7D**<br>PWC-03AFFM-LL7E**<br>PWC-03BFFM-LL7D**<br>PWC-03BFFM-LL7E**<br>PWC-03AFFM-TL7A**<br>PWC-03AFFM-TL7B** | PWC-03BFFA-LL7***<br>PWC-03BFFA-TL7001                                                                |
| 20A+2A (PWCU)                                                                                                                                                      | 04       | PWCU-04AMMM-LL7A**<br>PWCU-04AMMM-LL7B**<br>PWCU-04AMMM-TL7A**<br>PWCU-04AMMM-TL7B**                                                                                 | PWCU-04AFFM-LL7A**<br>PWCU-04AFFM-LL7B**<br>PWCU-04AFFM-TL7A**<br>PWCU-04AFFM-TL7B**                                                                                 | PWCU-04BFFA-LL7***<br>PWCU-04BFFA-TL7001                                                              |

## In-line

| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |          | Overmolded with Cable  | Overmolded with Cable  | Field Installable |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------|
|                                                                                                                                            |          | ** Selecting the proper cable length from 1~99m for your connector                                        | ** Selecting the proper cable length from 1~99m for your connector                                         |                   |
| Current Rating (Code)                                                                                                                      | Contacts | Female Connector (F)<br>Female Contacts (F)                                                               | Male Connector (M)<br>Male Contacts (M)                                                                    |                   |
| 20A (PWC)                                                                                                                                  | 03       | PWC-03AFFM-LL7A**<br>PWC-03AFFM-LL7B**<br>PWC-03AFFM-LL7D**<br>PWC-03AFFM-LL7E**                          | PWC-03AMMM-LL7A**<br>PWC-03AMMM-LL7B**<br>PWC-03AMMM-LL7D**<br>PWC-03AMMM-LL7E**                           | -                 |
| 20A+2A (PWCU)                                                                                                                              | (1+3)    | PWCU-04AFFM-LL7A**<br>PWCU-04AFFM-LL7B**                                                                  | PWCU-04AMMM-LL7A**<br>PWCU-04AMMM-LL7B**                                                                   | -                 |

## In-line

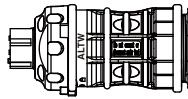
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• 3 Points Lock Bayonet</li> </ul> |          | Field Installable <div>  </div> | Overmolded with Cable <div>  </div> | Field Installable                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Current Rating (Code)                                                                                                                      | Contacts | Female Connector (F)<br>Female Contacts (F)                                                                      | Male Connector (M)<br>Male Contacts (M)                                                                                | Male Connector (M)<br>Male Contacts (M) |
| 20A+2A (PWCU)                                                                                                                              | (6+6)    | PWCU-12BFFA-TL7001                                                                                               | -                                                                                                                      | PWCU-12BMMA-TL7001                      |

## In-line

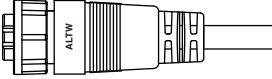
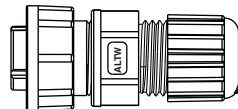
|                                                                                                                                                                                                                                                                                   |          |                                                                                                                                                                                      |                                                                                                                                                                                            |                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Male Contacts</li><li>• 3 Points Lock Bayonet</li><li>• Unlock Tool Needed<br/>(Part Number: ANB00010649)</li></ul>  |          | <p>Field Installable</p>  <p>***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)</p> | <p>Overmolded with Cable</p>  <p>***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)</p> | <p>Field Installable</p>                    |
| Current Rating<br>(Code)                                                                                                                                                                                                                                                          | Contacts | Male Connector (M)<br>Male Contacts (M)                                                                                                                                              | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                | Female Connector (F)<br>Female Contacts (F) |
| 25A (PWH)                                                                                                                                                                                                                                                                         | 05       | PWH-05BMMC-LL8***                                                                                                                                                                    | -                                                                                                                                                                                          | PWH-05BFFC-LL8***                           |
| 30A (PWJ)                                                                                                                                                                                                                                                                         | 03       | PWJ-03BMMB-LL8***                                                                                                                                                                    | -                                                                                                                                                                                          | PWJ-03BFFB-LL8***                           |

\* Design and specification are subject to change without notice.

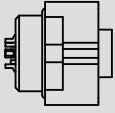
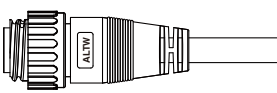
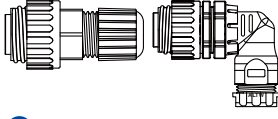
## In-line

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 3 Points Lock Bayonet</li> <li>• Unlock Tool Needed<br/>(Part Number: ANB00010649)</li> </ul>  |          | <b>Field Installable</b> <br>***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002) | <b>Overmolded with Cable</b>  | <b>Field Installable</b> <br>***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                                                                                                                                                   | Contacts | Male Connector (M)<br>Female Contacts (F)                                                                                                                                       | Female Connector (F)<br>Male Contacts (M)                                                                      | Female Connector (F)<br>Male Contacts (M)                                                                                                                                         |
| 25A (PWH)                                                                                                                                                                                                                                                                               | 05       | PWH-05BMFC-LL8***                                                                                                                                                               | -                                                                                                              | PWH-05BFMC-LL8***                                                                                                                                                                 |
| 30A (PWJ)                                                                                                                                                                                                                                                                               | 03       | PWJ-03BMFB-LL8***                                                                                                                                                               | -                                                                                                              | PWJ-03BFMB-LL8***                                                                                                                                                                 |

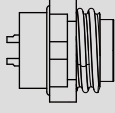
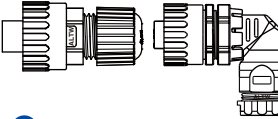
## In-line

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet &amp; 3 Points Lock Bayonet</li> </ul> |          | <b>Overmolded with Cable</b> <br>** Selecting the proper cable length from 1~99m for your connector | <b>Overmolded with Cable</b> <br>** Selecting the proper cable length from 1~99m for your connector | <b>Field Installable</b> <br>*** Selecting UL (002) or Non-UL (001) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                              | Contacts | Male Connector (M)<br>Female Contacts (F)                                                                                                                                             | Female Connector (F)<br>Male Contacts (M)                                                                                                                                              | Female Connector (F)<br>Male Contacts (M)                                                                                                               |
| 20A (PWC)                                                                                                                                                          | 03       | PWC-03AMFM-LL7A**<br>PWC-03AMFM-LL7B**<br>PWC-03AMFM-LL7D**<br>PWC-03AMFM-LL7E**<br>PWC-03BMFM-LL7D**<br>PWC-03BMFM-LL7E**<br>PWC-03AMFM-TL7A**<br>PWC-03AMFM-TL7B**                  | PWC-03AFMM-LL7A**<br>PWC-03AFMM-LL7B**<br>PWC-03AFMM-LL7D**<br>PWC-03AFMM-LL7E**<br>PWC-03BFMM-LL7D**<br>PWC-03BFMM-LL7E**<br>PWC-03AFMM-TL7A**<br>PWC-03AFMM-TL7B**                   | PWC-03BFMA-LL7***                                                                                                                                       |
| 20A+2A (PWCU)                                                                                                                                                      | 04       | PWCU-04AMFM-LL7A**<br>PWCU-04AMFM-LL7B**                                                                                                                                              | PWCU-04AFMM-LL7A**<br>PWCU-04AFMM-LL7B**                                                                                                                                               | -                                                                                                                                                       |

## Receptacle and Mating Pair

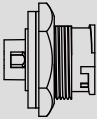
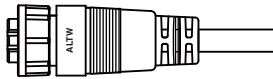
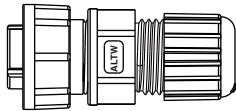
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> </ul> |            | Receptacle <br><small>*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)</small> | Overmolded with Cable <br><small>** Choose the proper cable length from 1~99m for your connector</small> | Field Installable <br><small>8 Choose straight (L) or right angle (R)</small><br><small>*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)</small> |
|-----------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                             | Contacts 2 | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                      | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                    | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                              |
| 8A (PWE)                                                                                                                          | 05~07      | PWE-2 PFFS-SC7001                                                                                                                                                                                | PWE-2 AMMM-SL7A**                                                                                                                                                                          | PWE-2 BMMA-SL7001                                                                                                                                                                                                                                                    |
| 12A (PWF)                                                                                                                         | 02~04      | PWF-2 PFFS-SC7001                                                                                                                                                                                | PWF-2 AMMM-SL7A**                                                                                                                                                                          | PWF-2 BMMA-SL7001                                                                                                                                                                                                                                                    |
| 16A (PWG)                                                                                                                         | 04         | PWG-04PFFB-SC7***                                                                                                                                                                                | —                                                                                                                                                                                          | PWG-04BMMA-S 8 7***                                                                                                                                                                                                                                                  |

## Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread</li> </ul> |            | Receptacle <br><small>*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)</small> | Overmolded with Cable <br><small>** Choose the proper cable length from 1~99m for your connector</small> | Field Installable <br><small>8 Choose straight (L) or right angle (R)</small><br><small>*** Choose Pin Plated: Gold Plated (001) / Silver Plated (002) / Tin Plated (003)</small> |
|-------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                         | Contacts 2 | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                           | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                 | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                           |
| 8A (PWE)                                                                                                                      | 05~07      | PWE-2 PMMS-SC7001                                                                                                                                                                                 | PWE-2 AFFM-SL7A**                                                                                                                                                                           | PWE-2 BFFA-SL7001                                                                                                                                                                                                                                                     |
| 12A (PWF)                                                                                                                     | 02~04      | PWF-2 PMMS-SC7001                                                                                                                                                                                 | PWF-2 AFFM-SL7A**                                                                                                                                                                           | PWF-2 BFFA-SL7001                                                                                                                                                                                                                                                     |
| 16A (PWG)                                                                                                                     | 04         | PWG-2 PMMB-SC7***                                                                                                                                                                                 | —                                                                                                                                                                                           | PWG-04BFFB-S 8 7***                                                                                                                                                                                                                                                   |
| 25A (PWH)                                                                                                                     | 03         | PWH-03PMMB-SC7001                                                                                                                                                                                 | PWH-03AFFM-SL7A**                                                                                                                                                                           | —                                                                                                                                                                                                                                                                     |

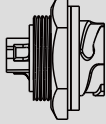
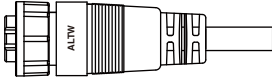
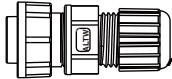
\* Design and specification are subject to change without notice.

## Receptacle and Mating Pair

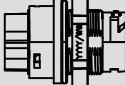
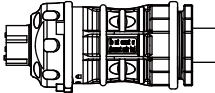
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 2 Points Lock Bayonet</li> </ul> |          | Receptacle  | Overmolded with Cable                    | Field Installable  |
|----------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                                                                                                                        |          | ** Selecting the proper cable length from 1~99m for your connector                           |                                                                                                                            | *** Selecting UL (002) or Non-UL (001)                                                                |
| Current Rating (Code)                                                                                                                  | Contacts | Male Connector (M)<br>Male Contacts (M)                                                      | Female Connector (F)<br>Female Contacts (F)                                                                                | Female Connector (F)<br>Female Contacts (F)                                                           |
| 20A (PWC)                                                                                                                              | 03       | PWC-03PMMS-LC7001 (UL)<br>PWC-03RMMS-LC7001 (Non UL)<br>PWC-03RMMS-LC7002 (UL)               | PWC-03AFFM-LL7A**<br>PWC-03AFFM-LL7B**<br>PWC-03AFFM-LL7D**<br>PWC-03AFFM-LL7E**<br>PWC-03BFFM-LL7D**<br>PWC-03BFFM-LL7E** | PWC-03BFFA-LL7***                                                                                     |
| 20A+2A (PWCU)                                                                                                                          | (3+1)    | PWCU-04RMMS-LC7001 (Non UL)<br>PWCU-04RMMS-LC7002 (UL)                                       | PWCU-04AFFM-LL7A**<br>PWCU-04AFFM-LL7B**                                                                                   | -                                                                                                     |



## Receptacle and Mating Pair

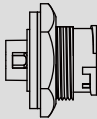
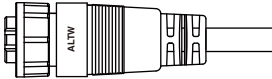
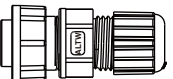
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 3 Points Lock Bayonet</li> </ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>  | <b>Field Installable</b>  |
|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                                                                                                                        |          |                                                                                                     | <small>** Cable length from 1~99m for your connector</small>                                                    | <small>***Selecting UL(002) or Non-UL (001)</small>                                                          |
| Current Rating (Code)                                                                                                                  | Contacts | Male Connector (M)<br>Male Contacts (M)                                                             | Female Connector (F)<br>Female Contacts (F)                                                                     | Female Connector (F)<br>Female Contacts (F)                                                                  |
| 20A (PWC)                                                                                                                              | 03       | PWC-03RMMS-TC7001                                                                                   | PWC-03AFFM-TL7A**<br>PWC-03AFFM-TL7B**                                                                          | -                                                                                                            |
| 30A (PWL)                                                                                                                              | 03       | PWL-03PMMB-TS7001                                                                                   | -                                                                                                               | PWL-03BFFA-TL7***                                                                                            |

## Receptacle and Mating Pair

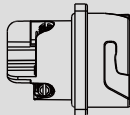
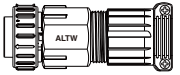
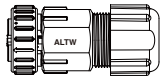
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• 3 Points Lock Bayonet</li> <li>• PWH For Inverter Application</li> <li>• Unlock Tool Needed  (Part Number: ANB00010649)</li> </ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>                | <b>Field Installable</b>                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                             |          |                                                                                                       |                                             | <small>UL 6703A Certification (E-Number 346280)</small><br><small>***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002)</small> |
| Current Rating (Code)                                                                                                                                                                                                                                                                                                       | Contacts | Male Connector (M)<br>Male Contacts (M)                                                               | Female Connector (F)<br>Female Contacts (F) | Female Connector (F)<br>Female Contacts (F)                                                                                                 |
| 25A (PWH)                                                                                                                                                                                                                                                                                                                   | 05       | PWH-05PMMC-LC8001                                                                                     | -                                           | PWH-05BFFC-LL8***                                                                                                                           |
| 30A (PWJ)                                                                                                                                                                                                                                                                                                                   | 03       | PWJ-03PMMB-LC8001                                                                                     | -                                           | PWJ-03BFFB-LL8***                                                                                                                           |

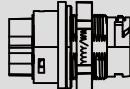
\* Design and specification are subject to change without notice.

## Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet &amp; 3 Points Lock Bayonet</li> </ul> |          | Receptacle                                                                        | Overmolded with Cable                                                                                                      | Field Installable                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                      |          |  |                                          |  |
|                                                                                                                                                                      |          | ***Selecting UL (002) or Non-UL (001)                                             | ** Cable length from 1~99m for your connector                                                                              | ***Selecting UL(002) or Non-UL (001)                                                |
| Current Rating (Code)                                                                                                                                                | Contacts | Male Connector (M)<br>Female Contacts (F)                                         | Female Connector (M)<br>Male Contacts (F)                                                                                  | Female Connector (M)<br>Male Contacts (F)                                           |
| 20A (PWC)                                                                                                                                                            | 03       | PWC-03PMFS-LC7001<br>PWC-03RMFS-LC7***<br>PWC-03RMFS-TC7001                       | PWC-03AFMM-LL7A**<br>PWC-03AFMM-LL7B**<br>PWC-03AFMM-LL7D**<br>PWC-03AFMM-LL7E**<br>PWC-03AFMM-TL7A**<br>PWC-03AFMM-TL7B** | PWC-03BFMA-LL7***<br><br>PWC-03BFMA-TL7001                                          |
| 20A+2A (PWCU)                                                                                                                                                        | (3+1)    | PWCU-04RMFS-LC7***                                                                | PWCU-04AFMM-LL7A**<br>PWCU-04AFMM-LL7B**                                                                                   | PWCU-04BFMA-LL7002                                                                  |

## Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 3 Points Lock Bayonet</li> </ul> |          | Receptacle                                                                          | Overmolded with Cable                     | Field Installable                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                          |          |  |                                           |  Non-UL (001)<br> UL(002) |
|                                                                                                                                          |          |                                                                                     |                                           | ***Selecting UL(002) or Non-UL (001)                                                                                                                                                                |
| Current Rating (Code)                                                                                                                    | Contacts | Male Connector (M)<br>Female Contacts (F)                                           | Female Connector (F)<br>Male Contacts (M) | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                           |
| 30A (PWL)                                                                                                                                | 03       | PWL-03PMFB-TS7001                                                                   | -                                         | PWL-03BFMA-TL7***                                                                                                                                                                                   |

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 3 Points Lock Bayonet</li> <li>• PWJ &amp; PWH For Inverter Application</li> <li>• Unlock Tool Needed  (Part Number: ANB00010649)</li> </ul> |          | Receptacle                                                                          | Overmolded with Cable                     | Field Installable                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                         |          |  |                                           |                          |
|                                                                                                                                                                                                                                                                                                                                         |          |                                                                                     |                                           | UL 6703A Certification (E-Number 346280)<br>***Selecting the cable OD range 12~16mm (001) or OD 09~12mm (002) |
| Current Rating (Code)                                                                                                                                                                                                                                                                                                                   | Contacts | Male Connector (M)<br>Female Contacts (F)                                           | Female Connector (F)<br>Male Contacts (M) | Female Connector (F)<br>Male Contacts (M)                                                                     |
| 25A (PWH)                                                                                                                                                                                                                                                                                                                               | 05       | PWH-05PMFC-LC8001                                                                   | -                                         | PWH-05BFMC-LL8***                                                                                             |
| 30A (PWJ)                                                                                                                                                                                                                                                                                                                               | 03       | PWJ-03PMFB-LC8001                                                                   | -                                         | PWJ-03BFMB-LL8***                                                                                             |

Blank lined paper for writing.



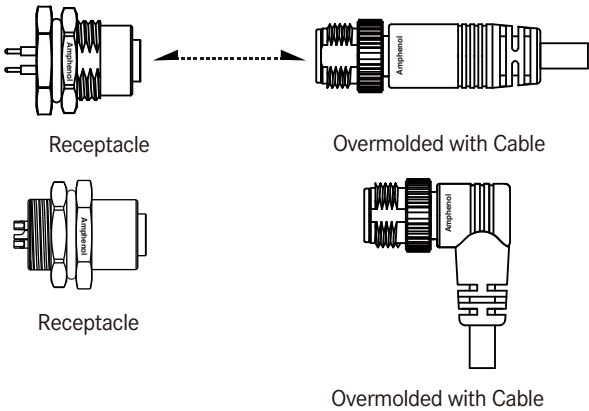
Scan to visit our website

## M Series Sensor Connector

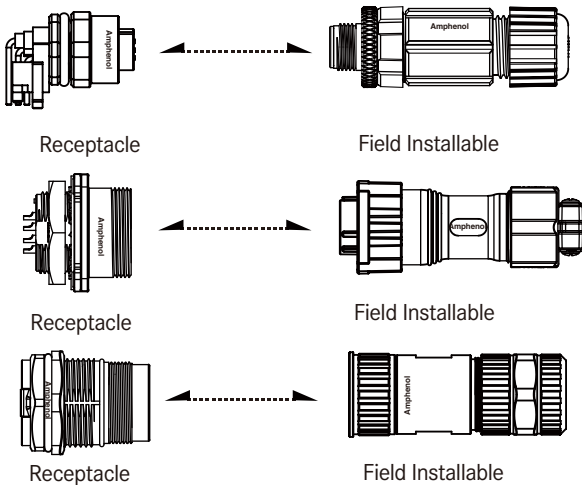


# Range Overview

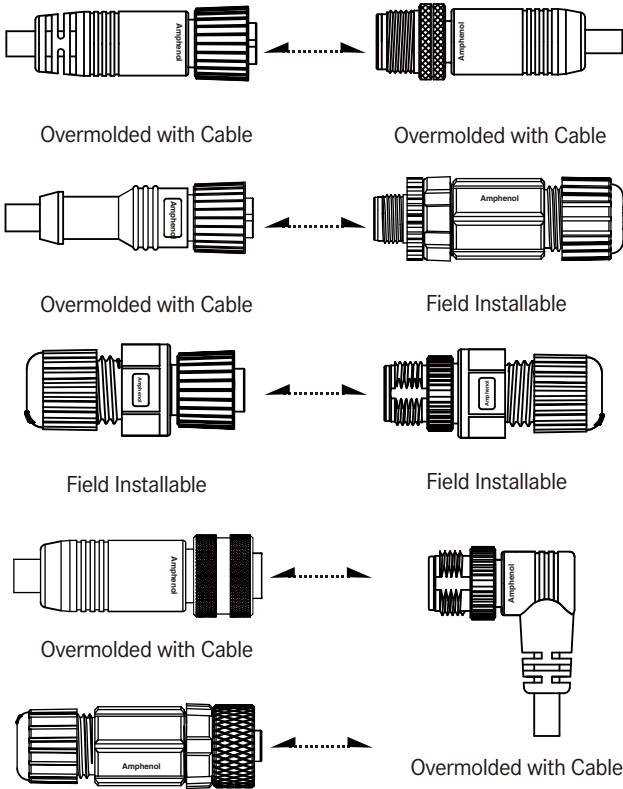
## Receptacle to Overmolded with Cable



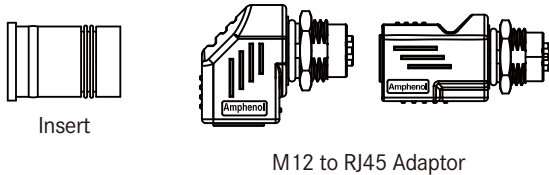
## Receptacle to Field Installable



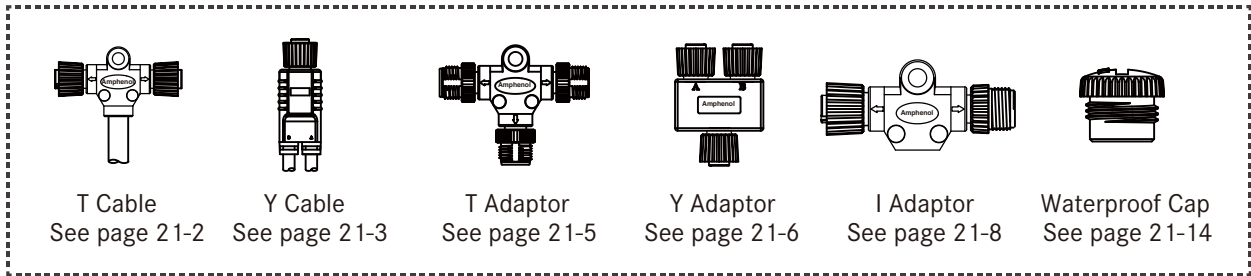
## In Line



## Others



## Accessories



## Specification

|                       |                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identifications       | M8, M10.5, M12 (A, B, D code), Heavy Duty Shielded Connector, M23                                                                                                               |
| Description           | Receptacle<br>Overmolded with Cable<br>Field Installable                                                                                                                        |
| Current Rating / Data | 1.5A~28A                                                                                                                                                                        |
| Material              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : Nylon+GF or PU, UL Recognized<br>Metal Screw Nut: Zinc Alloy or Copper Ally, Nickel Plated                    |
| Waterproof Rating     | IP65, IP67~68                                                                                                                                                                   |
| Temperature Range     | Receptacle: -40°C~105°C<br>Overmolded with Cable: PVC Cable: -20°C~80°C<br>PU Cable: -20°C~85°C<br>Field Installable: -40°C~105°C<br>* Higher working temperature upon request. |
| Contact Resistance    | ≤ 10mΩ                                                                                                                                                                          |
| Standard Cable Length | 01~99M                                                                                                                                                                          |
| Mating Cycle          | 100*Minimum                                                                                                                                                                     |
| Vibration             | 10 ~ 500 Hz and 0.35 mm                                                                                                                                                         |
| Standards             | IEC 61076-2-101<br>IEC 61076-2-104                                                                                                                                              |

\* Design and specification are subject to change without notice.

# Ordering Information

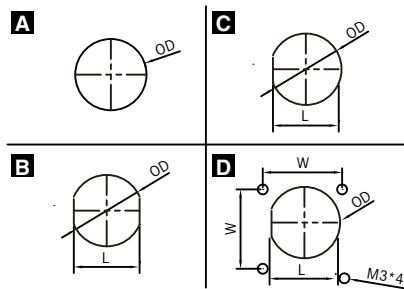
| Specification / Size                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                                                                                                                                                                                                                                                                                                                                                                       | 2                                                                                                                                                                                                                                                                                                                | 3                                                                    | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---|---|---|---|---|---|----|
| <u>&gt;M8 Size</u><br>(8) M8<br>(8P) M8 (Plastic)<br>(8A) M8 W/ KEY<br>(8AP) M8 W/ KEY (Plastic)<br><u>&gt;M10.5 Size</u><br>(10S) M10.5<br><u>&gt;M12 Size:</u><br>(12) M12 A-Coded<br>(12L) M12 A-Coded inserted with LED<br>(12P) M12 A-Coded (Plastic)<br>(12S) M12 A-Coded (Shielded)<br>(12B) M12 B-Coded<br>(SBP) M12 B-Coded (Plastic)<br>(SBS) M12 B-Coded (Shielded)<br>(12D) M12 D-Coded<br>(SDP) M12 D-Coded (Plastic)<br>(SDS) M12 D-Coded (Shielded) | <u>&gt;Heavy Duty Shielded Connector,</u><br>(HB20) Metal, Salt Spray Test 500H, 10A<br>(LB20) Metal, Salt Spray Test 48H, 10A<br>(HC20) Metal, Salt Spray Test 500H, 20A<br>(LC20) Metal, Salt Spray Test 48H, 20A<br>(HD20) Metal, Salt Spray Test 500H, 5A<br>(LD20) Metal, Salt Spray Test 48H, 5A<br><u>&gt;M23 Size</u><br>(LJ23) Metal, Salt Spray Test 48H, 28A |                                                                                                                                                                                                                                                                                                                  |                                                                      |   |   |   |   |   |   |    |
| Number of Contacts<br>02, 03..., 14...Contacts<br>EX. (02) = 2 Contacts                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                  |                                                                      |   |   |   |   |   |   |    |
| Connector Body (Style)<br><u>&gt; For Receptacle</u><br>(P) Panel                                                                                                                                                                                                                                                                                                                                                                                                  | <u>&gt; For Overmolded with Cable</u><br>(A) With Strain Relief<br>(B) Without Strain Relief                                                                                                                                                                                                                                                                            | <u>&gt; For Field installable</u><br>(B) Without Strain Relief<br>(D) With Ground Pin                                                                                                                                                                                                                            |                                                                      |   |   |   |   |   |   |    |
| Connector (Housing) Gender<br>(M) Male Connector<br>(F) Female Connector                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                  |                                                                      |   |   |   |   |   |   |    |
| Contact Gender<br>(M) Male<br>(F) Female                                                                                                                                                                                                                                                                                                                                                                                                                           | (I) I style (Male+Female)                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                  |                                                                      |   |   |   |   |   |   |    |
| Assemble Style<br><u>&gt; For Receptacle</u><br>(S) Solder Type<br>(P) 180° PCB Type<br>(R) 90° PCB Type<br>(C) Crimp Type                                                                                                                                                                                                                                                                                                                                         | <u>&gt; For Field Installable</u><br>(A) Field installable(Solder)<br>(B) Field installable(Screw)<br>(C) Field installable(Crimp)<br>(D) Field Installable (IDC)                                                                                                                                                                                                       | <u>&gt; For Overmolded with Cable</u><br>(M) Overmolded with Cable                                                                                                                                                                                                                                               |                                                                      |   |   |   |   |   |   |    |
| Mating Style<br>(S) Screw Thread                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Q) Quick                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                  |                                                                      |   |   |   |   |   |   |    |
| Backshell<br><u>&gt; For Receptacle</u><br>(C) Circular (Rear Fastened)<br>(F) Hexagonal Front Fastened<br>(H) Rear Hexagonal (Rear Fastened)                                                                                                                                                                                                                                                                                                                      | <u>&gt; For Receptacle</u><br>(W) Square Front Fastened with Screw<br>(N) Square Rear Fastened with Nut                                                                                                                                                                                                                                                                 | <u>&gt; For Overmolded with Cable</u><br>(L) Straight<br>(R) Right Angle                                                                                                                                                                                                                                         | <u>&gt; For Field Installable</u><br>(L) Straight<br>(R) Right Angle |   |   |   |   |   |   |    |
| Waterproof Rating<br>(5) IP65 (Quick Type)<br>(7) IP 67                                                                                                                                                                                                                                                                                                                                                                                                            | (8) IP 68                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                  |                                                                      |   |   |   |   |   |   |    |
| Cable information<br><u>&gt; For Receptacle</u><br>(001) / (002) : PG9<br>(003) / (004) / (005) : M16<br>(006) : M12                                                                                                                                                                                                                                                                                                                                               | <u>&gt; For Overmolded with Cable</u><br>(□) + (■) : Cable Type + Cable Length<br>EX. (A01) = UL2464 Cable + 1M<br>(□) : Cable Type<br>(A) PVC UL2464 Cable From 1M to 99M<br>(B) PU VW-1 Cable EX.(01)= 1M                                                                                                                                                             | <u>&gt; For Receptacle with wire harness</u><br>(□) + (■) : Cable Type + Wire Length<br>EX. (A15) = UL 1007 (For M8) + 150mm<br>(□) Cable Type<br>(A) UL 1007 (For M8)<br>(B) UL1061 (For M12-PG9 W/ O Logo)<br>(C) UL1061 (For M12-M16 W / O Logo)<br>(■) Wire length<br>(15) 150mm<br>(30) 300mm<br>(50) 500mm |                                                                      |   |   |   |   |   |   |    |

\* UL2517 / UL20549 available by 2014

## Physical Dimension

### Receptacle

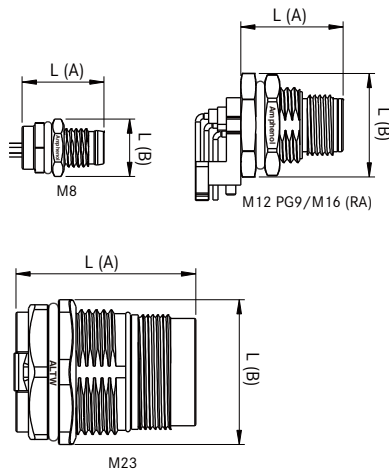
Panel Cut-Out



| Size \ Dimension |                         | Type   | L / W | OD   | Type | L / W       | OD   |
|------------------|-------------------------|--------|-------|------|------|-------------|------|
| Size             | Thread Description      | Female |       |      | Male |             |      |
| M105             | M10.5 X 0.75            | -      | -     | -    | A    | -           | 10.9 |
| M8               | M8 X 1.0                | B      | 7.1   | 8.1  | B    | 7.1         | 8.1  |
|                  |                         | -      | -     | -    | A    | -           | 8.1  |
| M12              | M12 X 1.0 - PG9         | B      | 13.6  | 15.4 | B    | 13.6        | 15.4 |
|                  | M12 X 1.0 - M16.0 X 1.5 | B      | 13.6  | 16.1 | B    | 13.6        | 16.1 |
|                  | M12.0 X 1.0             | B      | 10.5  | 12.2 | B    | 10.5        | 12.2 |
| HDSC*            | M22 X 1.0               | -      | -     | -    | C    | 19.2        | 20.2 |
|                  |                         | -      | -     | -    | D    | 19.2 / 23.0 | 20.2 |
| M23              | M23 X 1.0               | -      | -     | -    | C    | 24.4        | 25.1 |

\*HDSC: Heavy Duty Shielded Connector

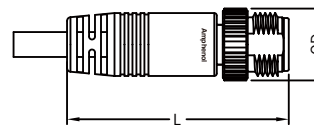
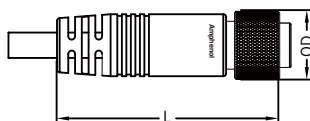
Connector Dimension



| Series       |          | Receptacle  |       |       |       | Panel Thickness |                                   |             |
|--------------|----------|-------------|-------|-------|-------|-----------------|-----------------------------------|-------------|
| Conn. Gender | Type     | Female      |       | Male  |       |                 |                                   |             |
|              |          | L (A)       | L (B) | L (A) | L (B) | Front Fastened  | Rear Fastened                     |             |
| M8           |          | Straight    | 18.0  | 13.8  | 16.4  | 11.5            | 3.0 mm Max.                       | 3.5 mm Max. |
| M105         |          | Straight    | -     | -     | 18.0  | 15.0            | -                                 | 6.0 mm Max. |
| M12          | PG9/ M16 | Straight    | 20.0  | 20.8  | 20.5  | 20.8            | 4.5mm Max.<br>4.0mm Max.(Plastic) | 4.5mm Max.  |
|              |          | Right Angle | 20.0  | 20.8  | 20.5  | 20.8            |                                   |             |
|              | M12* 1.0 | Right Angle | 16.9  | 15.0  | 16.2  | 15.0            | 3.0mm Max.                        |             |
| HDSC*        |          | Straight    | -     | -     | 23.5  | 29.0            | 9.0mm Min.                        | 5.0 mm Max. |
| M23          |          | Straight    | -     | -     | 36.0  | 29.0            | 6.0 mm Max.                       | -           |

\*HDSC: Heavy Duty Shielded Connector

### Overmolded with Cable



| Size \ Dimension |                    | L      | OD  |
|------------------|--------------------|--------|-----|
| Size             | Thread Description | Female |     |
| M105             | M10.5 X 0.75       | 36.5   | 8.4 |

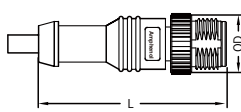
| Size \ Dimension |                    | L      |      | OD     |      |
|------------------|--------------------|--------|------|--------|------|
| Size             | Thread Description | Female | Male | Female | Male |
| M105             | M10.5 X 0.75       | 41.5   | -    | 12.0   | -    |
| M8               | M8 X 1.0           | 38.1   | 42.7 | 10.1   | 10.5 |
| M12              | M12.0 X 1.0        | 43.3   | 44.4 | 14.5   | 14.4 |

Dimensions are shown in millimeters

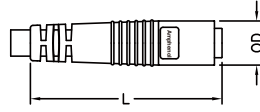


# M Series Sensor Connector I Physical Dimension

## Receptacle I Overmolded with Cable I Field Installable

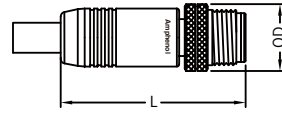


\* Screw thread type

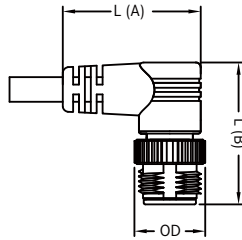


\* Snap-In type

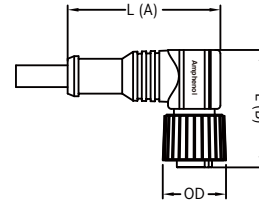
| Size |                           | Dimension |      | L      |      | OD     |      |
|------|---------------------------|-----------|------|--------|------|--------|------|
| Size | Type                      | Female    | Male | Female | Male | Female | Male |
| M8   | Screw Thread M8 X 1.0     | 36.0      | 40.5 | 10.1   | 10.5 |        |      |
| M8   | Snap-In M8 X 1.0          | 36.5      | -    | 8.4    | -    |        |      |
| M105 | Screw Thread M10.5 X 0.75 | 37.2      | -    | 12.0   | -    |        |      |
| M12  | Screw Thread M12.0 X 1.0  | 43.3      | 44.4 | 14.5   | 14.4 |        |      |



| Size |                    | Dimension |      | L      |      | OD     |      |
|------|--------------------|-----------|------|--------|------|--------|------|
| Size | Thread Description | Female    | Male | Female | Male | Female | Male |
| M12  | M12.0 X 1.0        | 39.2      | 40.1 | 14.5   | 14.5 |        |      |

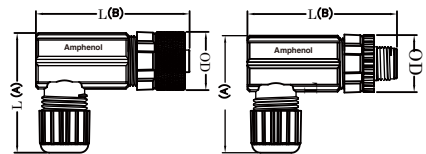
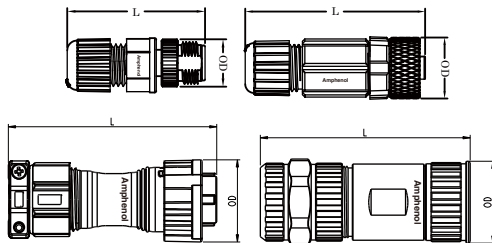


| Size |                    | Dimension |      | L [A]  |      | L [B]  |      | OD     |      |
|------|--------------------|-----------|------|--------|------|--------|------|--------|------|
| Size | Thread Description | Female    | Male | Female | Male | Female | Male | Female | Male |
| M105 | M10.5 X 0.75       | 24.0      | -    | 24.0   | -    | 12.0   | -    |        |      |
| M8   | M8 X 1.0           | 20.7      | 20.7 | 20.0   | 25.5 | 10.1   | 10.5 |        |      |
| M12  | M12.0 X 1.0        | 28.0      | 28.0 | 27.9   | 28.9 | 14.5   | 14.4 |        |      |



| Size |                    | Dimension |      | L [A]  |      | L [B]  |      | OD     |      |
|------|--------------------|-----------|------|--------|------|--------|------|--------|------|
| Size | Thread Description | Female    | Male | Female | Male | Female | Male | Female | Male |
| M105 | M10.5 X 0.75       | 19.0      | -    | 24.0   | -    | 12.0   | -    |        |      |
| M8   | M8 X 1.0           | 25.0      | 25.0 | 21.0   | 25.6 | 10.1   | 10.5 |        |      |
| M12  | M12.0 X 1.0        | 35.0      | 35.0 | 26.9   | 27.9 | 14.5   | 14.4 |        |      |

## Field Installable



| Size  |             | Dimension |      | Pin Type | L      |      | OD     |      |
|-------|-------------|-----------|------|----------|--------|------|--------|------|
| Size  | Type        | Female    | Male |          | Female | Male | Female | Male |
| M8    | M8 X 1.0    | Screw In  | 55.4 | 59.1     | 16.7   | 16.7 |        |      |
| M12   | M12.0 X 1.0 |           | 40.5 | 41.8     | 14.5   | 14.4 |        |      |
| M12   | M12.0 X 1.0 | Solder    | 61.3 | 61.3     | 20.8   | 20.8 |        |      |
| M12   | M12.0 X 1.0 | Solder    | 40.5 | 41.8     | 14.8   | 13.8 |        |      |
| M12   | M12.0 X 1.0 | Screw In  | 61.3 | 61.3     | 20.8   | 20.4 |        |      |
| HDSC* | M22 X 1.0   | -         | 72.5 | -        | 27.7   | -    |        |      |
| M23   | M23 X 1.0   | -         | 73.0 | -        | 28.5   | -    |        |      |

| Size |                    | Dimension |      | Pin Type | L [A]  |      | L [B]  |      | OD     |      |
|------|--------------------|-----------|------|----------|--------|------|--------|------|--------|------|
| Size | Thread Description | Female    | Male |          | Female | Male | Female | Male | Female | Male |
| M12  | M12.0 X 1.0        | Screw In  | 38.9 | 38.9     | 52.3   | 52.3 | 20.8   | 20.8 |        |      |
| M12  | M12.0 X 1.0        |           | 38.9 | 38.9     | 52.3   | 52.3 | 20.8   | 20.8 |        |      |

Dimensions are shown in millimeters

\*HDSC: Heavy Duty Shielded Connector

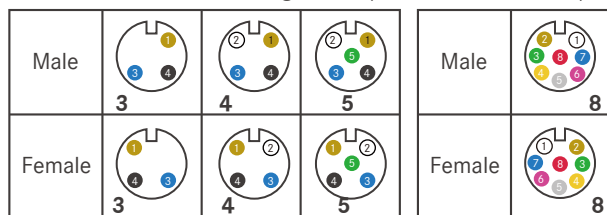
\* Design and specification are subject to change without notice.

# Contact Configuration

|               | M8                                                                                |                                                                                   |                                                                                   | M105                                                                              | M12 A Code                                                                          | M12 B Code | M12 D Code                                                                        | M12 I Style |                                                                                    |          |                                                                                     |          |
|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
|               | (1.5A)                                                                            | (3A)                                                                              |                                                                                   | (2A)                                                                              | (3~5P: 4A   8P: 2A)                                                                 | (4A)       | (4A)                                                                              | (4A)        |                                                                                    |          |                                                                                     |          |
| ④ ⑤           | MM or FF                                                                          | MM or FF                                                                          | MM or FF                                                                          | MF or FM                                                                          | MM or FF                                                                            | MF or FM   | MM or FF                                                                          | MF or FM    | MM or FF                                                                           | MF or FM | MMF or FFM                                                                          | MF or FM |
| 2Pin<br>(02)  |                                                                                   |  |                                                                                   |  |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
|               |                                                                                   | R   C   F                                                                         |                                                                                   | R   C                                                                             |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
| 3Pin<br>(03)  |                                                                                   |  |  |  |    |            |  |             |  |          |                                                                                     |          |
|               |                                                                                   | R   C   F                                                                         | R   C   F                                                                         | R   C                                                                             | R   C   F                                                                           |            | R   F                                                                             |             | R   F                                                                              |          |                                                                                     |          |
| 4Pin<br>(04)  |                                                                                   |  |  |  |    |            |  |             |  |          |                                                                                     |          |
|               |                                                                                   | R   C   F                                                                         | R   C   F                                                                         | R   C                                                                             | R   C   F                                                                           |            | R   C   F                                                                         |             | R   C   F                                                                          |          |                                                                                     |          |
| 5Pin<br>(05)  |  |                                                                                   |                                                                                   |  |    |            |  |             |  |          |  |          |
|               | R   C   F                                                                         |                                                                                   |                                                                                   | R   C                                                                             | R   C   F                                                                           |            | R   C   F                                                                         |             | R   C   F                                                                          |          | R   C   F                                                                           |          |
| 6Pin<br>(06)  |  |                                                                                   |                                                                                   |                                                                                   |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
|               | R   C   F                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
| 7Pin<br>(07)  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
| 8Pin<br>(08)  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
|               |                                                                                   |                                                                                   |                                                                                   |                                                                                   | R   C   F                                                                           |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
| 10Pin<br>(10) |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
| 12Pin<br>(12) |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |
| 14Pin<br>(14) |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |            |                                                                                   |             |                                                                                    |          |                                                                                     |          |

## More to know:

No. of Poles & Contact Configuration (Connection side view)



Color Identification:

1 = Brown, 2 = White, 3 = Blue, 4 = Black, 5 = Green

Color Identification:

1 = White, 2 = Brown, 3 = Green, 4 = Yellow,

5 = Gray, 6 = Pink, 7 = Blue, 8 = Red

| HDSC*<br>(5A) |                                                                                     | HDSC*<br>(10A) |                                                                                   | HDSC*<br>(20A) |                                                                                   | M23<br>(28A)                                                                      |                                                                                   |
|---------------|-------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| MM or FF      | MF or FM                                                                            | MM or FF       | MF or FM                                                                          | MM or FF       | MF or FM                                                                          | MM or FF                                                                          | MF or FM                                                                          |
|               |                                                                                     |                |                                                                                   |                |  |                                                                                   |                                                                                   |
|               |                                                                                     |                |                                                                                   |                | R   F                                                                             |                                                                                   |                                                                                   |
|               |                                                                                     |                |                                                                                   |                |  |                                                                                   |                                                                                   |
|               |                                                                                     |                |                                                                                   |                | R   F                                                                             |                                                                                   |                                                                                   |
|               |                                                                                     |                |  |                |                                                                                   |                                                                                   |                                                                                   |
|               |                                                                                     |                | R   F                                                                             |                |                                                                                   |                                                                                   |                                                                                   |
|               |                                                                                     |                |  |                |                                                                                   |                                                                                   |                                                                                   |
|               |                                                                                     |                | R   F                                                                             |                |                                                                                   |                                                                                   |                                                                                   |
|               |                                                                                     |                |                                                                                   |                |                                                                                   |  |  |
|               |                                                                                     |                |                                                                                   |                |                                                                                   | R   F                                                                             | R   F                                                                             |
|               |                                                                                     |                |  |                |                                                                                   |                                                                                   |                                                                                   |
|               |                                                                                     |                | R   F                                                                             |                |                                                                                   |                                                                                   |                                                                                   |
|               |                                                                                     |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |
|               |  |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |
|               | R   F                                                                               |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |
|               |  |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |
|               | R   F                                                                               |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |
|               |  |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |
|               | R   F                                                                               |                |                                                                                   |                |                                                                                   |                                                                                   |                                                                                   |

\*HDSC: Heavy Duty Shielded Connector

| M12 Panel Version | Screw Thread Size | Logo         |
|-------------------|-------------------|--------------|
| 001               | M12XPG9           | With Logo    |
| 002               | M12XPG9           | Without Logo |
| 003               | M12XM16.0X1.5     | With Logo    |
| 004               | M12XM16.0X1.5     | Without Logo |
| 005               | M12XM16.0X1.5     | Without Logo |
| 006               | M12X1.0           | With Logo    |
| 007               | M12X1.0           | Without Logo |

\* Design and specification are subject to change without notice.

R: receptacle

C: overmolded with cable

F: field installable

-  1.5A (M8)  
 2A (M105/M12 A)  
 3A (M8)  
 4A (M12 A/M12 B/M12 D/M12 I Style)  
 5A (HDSC\*)  
 10A (HDSC\*)  
 20A (HDSC\*)  
 28A (M23)

Contact Number:

Ex.2 contacts (02)

Connector (Housing) Gender:

Male(M) or Female(F)

Contact Gender:

Male(M) or Female(F)

Male + Female (I)

More to Choose:

• Solder (S)

- Solder Cup



• PCB Type

- 90° PCB (R)

- 180° PCB (P)



More to know:

A-Code

B-Code

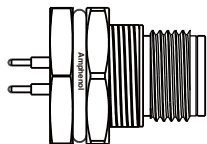
D-Code

I-Style



## Product Features

### Receptacle



#### Mating Style 7



Screw Thread (S)

#### Backshell 8



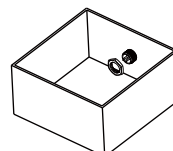
Circular (C)



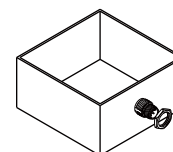
Hexagonal (H)(F)



Square (N)(W)



Rear Fastened



Front Fastened (P)

### Overmolded with Cable



#### Mating Style 7



Screw Thread (S)  
(For M12)

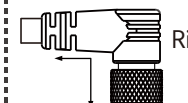


Quick (Q)  
(For M8)

#### Backshell 8



Straight  
(L)



Right Angle  
(R)

#### Connector Body(Style) 3

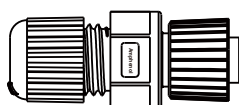


With Strain Relief (A)



Without Strain Relief (B)

### Field Installable

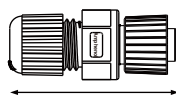


#### Mating Style 7

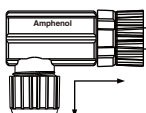


Screw Thread (S)

#### Backshell 8

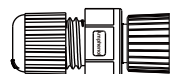


Straight (L)



Right Angle (R)

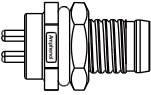
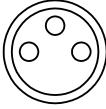
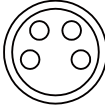
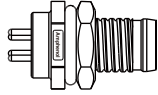
#### Connector Body(Style) 3



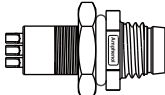
Without Strain Relief (B)

## Find Our Standard Products

### └ M8 (Metal) > Receptacle > Male Connector > Front Fastened

| > IEC 61076-2-104                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                                                                                   |  |  |                                                                                    |                                                                                     |
| Backshell: Hexagonal                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | 2 Contacts                                                                        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 6 Contacts                                                                          |
| PCB Pin                                                                           | -                                                                                 | 8-03PMMP-SF7001                                                                   | 8-04PMMP-SF7001                                                                   | -                                                                                  | -                                                                                   |
| Solder Pin                                                                        | -                                                                                 | 8-03PMMS-SF7001                                                                   | 8-04PMMS-SF7001                                                                   | -                                                                                  | -                                                                                   |
| Wire Leads (150mm)                                                                | -                                                                                 | 8-03PMMS-SF715                                                                    | 8-04PMMS-SF715                                                                    | -                                                                                  | -                                                                                   |
| Wire Leads (300mm)                                                                | -                                                                                 | 8-03PMMS-SF730                                                                    | 8-04PMMS-SF730                                                                    | -                                                                                  | -                                                                                   |
| Wire Leads (500mm)                                                                | -                                                                                 | 8-03PMMS-SF750                                                                    | 8-04PMMS-SF750                                                                    | -                                                                                  | -                                                                                   |
| > with alignment Key                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|  |  |  |  |  |  |
| Backshell: Hexagonal                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | 2 Contacts                                                                        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 6 Contacts                                                                          |
| PCB Pin                                                                           | 8A-02PMMP-SF7001                                                                  | 8A-03PMMP-SF7001                                                                  | 8A-04PMMP-SF7001                                                                  | 8A-05PMMP-SF7001                                                                   | 8A-06PMMP-SF7001                                                                    |
| Solder Pin                                                                        | 8A-02PMMS-SF7001                                                                  | 8A-03PMMS-SF7001                                                                  | 8A-04PMMS-SF7001                                                                  | 8A-05PMMS-SF7001                                                                   | 8A-06PMMS-SF7001                                                                    |

### └ M8 (Metal) > Receptacle > Male Connector > Rear Fastened

| > IEC 61076-2-104                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |                                                                                     |  |  |                                                                                      |                                                                                       |
| Backshell: Hexagonal                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| Type                                                                                | 2 Contacts                                                                          | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 6 Contacts                                                                            |
| PCB Pin                                                                             | -                                                                                   | 8-03PMMP-SH7001                                                                     | 8-04PMMP-SH7001                                                                     | -                                                                                    | -                                                                                     |
| Solder Pin                                                                          | -                                                                                   | 8-03PMMS-SH7001                                                                     | 8-04PMMS-SH7001                                                                     | -                                                                                    | -                                                                                     |
| Wire Leads (150mm)                                                                  | -                                                                                   | 8-03PMMS-SH715                                                                      | 8-04PMMS-SH715                                                                      | -                                                                                    | -                                                                                     |
| Wire Leads (300mm)                                                                  | -                                                                                   | 8-03PMMS-SH730                                                                      | 8-04PMMS-SH730                                                                      | -                                                                                    | -                                                                                     |
| Wire Leads (500mm)                                                                  | -                                                                                   | 8-03PMMS-SH750                                                                      | 8-04PMMS-SH750                                                                      | -                                                                                    | -                                                                                     |
| > with alignment Key                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|  |  |  |  |  |  |
| Backshell: Hexagonal                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
| Type                                                                                | 2 Contacts                                                                          | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 6 Contacts                                                                            |
| Solder Pin                                                                          | 8A-02PMMS-SH7001                                                                    | 8A-03PMMS-SH7001                                                                    | 8A-04PMMS-SH7001                                                                    | 8A-05PMMS-SH7002                                                                     | 8A-06PMMS-SH7002                                                                      |

\* Design and specification are subject to change without notice.

## M8 (Metal)

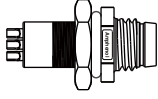
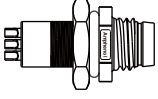
Receptacle &gt; Female Connector

Overmolded with Cable &gt; Male Connector

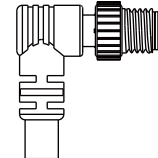
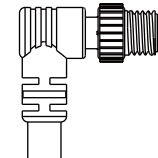
# IP 65 . 67 9

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

### └ M8 (Metal) Receptacle > Female Connector > Rear Fastened

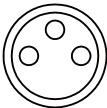
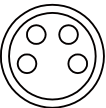
| > IEC 61076-2-104                                                                 |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |                  |  |  |                                                                                   |                                                                                    |
| Backshell: Hexagonal                                                              |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Type                                                                              | 2 Contacts       | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                         |
| Solder Pin                                                                        | -                | 8-03PFFS-SH7001                                                                   | 8-04PFFS-SH7001                                                                   | -                                                                                 | -                                                                                  |
| Wire Leads (150mm)                                                                | -                | 8-03PFFS-SH715                                                                    | 8-04PFFS-SH715                                                                    | -                                                                                 | -                                                                                  |
| Wire Leads (300mm)                                                                | -                | 8-03PFFS-SH730                                                                    | 8-04PFFS-SH730                                                                    | -                                                                                 | -                                                                                  |
| Wire Leads (500mm)                                                                | -                | 8-03PFFS-SH750                                                                    | 8-04PFFS-SH750                                                                    | -                                                                                 | -                                                                                  |
| > with alignment Key                                                              |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|  |                  |  |  |  |  |
| Backshell: Hexagonal                                                              |                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Type                                                                              | 2 Contacts       | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                         |
| Solder Pin                                                                        | 8A-02PFFS-SH7001 | 8A-03PFFS-SH7001                                                                  | 8A-04PFFS-SH7001                                                                  | 8A-05PFFS-SH7002                                                                  | 8A-06PFFS-SH7002                                                                   |

### └ M8 (Metal) > Overmolded with cable > Male Connector > Right Angle

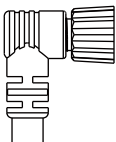
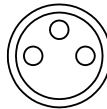
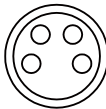
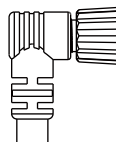
| > IEC 61076-2-104                                                                   |               |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |               |  |  |                                                                                     |                                                                                      |
| Type                                                                                | 2 Contacts    | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                          | 6 Contacts                                                                           |
| With Strain Relief                                                                  | -             | 8-03AMMM-SR7                                                                        | 8-04AMMM-SR7                                                                        | -                                                                                   | -                                                                                    |
| Without Strain Relief                                                               | -             | 8-03BMMM-SR7                                                                        | 8-04BMMM-SR7                                                                        | -                                                                                   | -                                                                                    |
| > with alignment Key                                                                |               |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|  |               |  |  |  |  |
| Type                                                                                | 2 Contacts    | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                          | 6 Contacts                                                                           |
| With Strain Relief                                                                  | 8A-02AMMM-SR7 | 8A-03AMMM-SR7                                                                       | 8A-04AMMM-SR7                                                                       | 8A-05AMMM-SR7                                                                       | 8A-06AMMM-SR7                                                                        |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

## M8 (Metal) > Overmolded with cable > Male Connector > Straight

| > IEC 61076-2-104                                                                 |               |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |               |  |  |                                                                                   |                                                                                     |
| Type                                                                              | 2 Contacts    | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                          |
| With Strain Relief                                                                | -             | 8-03AMMM-SL7                                                                      | 8-04AMMM-SL7                                                                      | -                                                                                 | -                                                                                   |
| Without Strain Relief                                                             | -             | 8-03BMMM-SL7                                                                      | 8-04BMMM-SL7                                                                      | -                                                                                 | -                                                                                   |
| > with alignment Key                                                              |               |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|  |               |  |  |  |  |
| Type                                                                              | 2 Contacts    | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                          |
| With Strain Relief                                                                | 8A-02AMMM-SL7 | 8A-03AMMM-SL7                                                                     | 8A-04AMMM-SL7                                                                     | 8A-05AMMM-SL7                                                                     | 8A-06AMMM-SL7                                                                       |

## M8 (Metal) > Overmolded with cable > Female Connector > Right Angle

| > IEC 61076-2-104                                                                   |               |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |               |  |  |                                                                                      |                                                                                       |
| Type                                                                                | 2 Contacts    | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 6 Contacts                                                                            |
| With Strain Relief                                                                  | -             | 8-03AFFM-SR7                                                                        | 8-04AFFM-SR7                                                                        | -                                                                                    | -                                                                                     |
| Without Strain Relief                                                               | -             | 8-03BFFM-SR7                                                                        | 8-04BFFM-SR7                                                                        | -                                                                                    | -                                                                                     |
| > with alignment Key                                                                |               |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|  |               |  |  |  |  |
| Type                                                                                | 2 Contacts    | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 6 Contacts                                                                            |
| With Strain Relief                                                                  | 8A-02AFFM-SR7 | 8A-03AFFM-SR7                                                                       | 8A-04AFFM-SR7                                                                       | 8A-05AFFM-SR7                                                                        | 8A-06AFFM-SR7                                                                         |

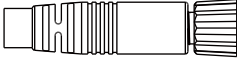
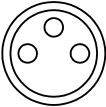
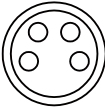
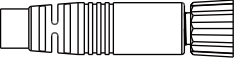
| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

**M8 (Metal)**

Overmolded with Cable &gt; Female Connector

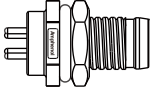
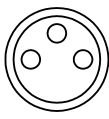
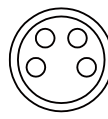
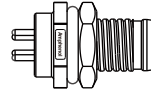
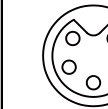
**IP 67 . 68** **9**Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated≧ **M8 (Metal) > Overmolded with cable > Female Connector > Straight**

| > IEC 61076-2-104                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                                                                                   |  |  |                                                                                    |                                                                                     |
| Type                                                                              | 2 Contacts                                                                        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 6 Contacts                                                                          |
| With Strain Relief                                                                | -                                                                                 | 8-03AFFM-SL7                                                                      | 8-04AFFM-SL7                                                                      | -                                                                                  | -                                                                                   |
| Without Strain Relief                                                             | -                                                                                 | 8-03BFFM-SL7                                                                      | 8-04BFFM-SL7                                                                      | -                                                                                  | -                                                                                   |
| > with alignment Key                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|  |  |  |  |  |  |
| Type                                                                              | 2 Contacts                                                                        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 6 Contacts                                                                          |
| With Strain Relief                                                                | 8A-02AFFM-SL7                                                                     | 8A-03AFFM-SL7                                                                     | 8A-04AFFM-SL7                                                                     | 8A-05AFFM-SL7                                                                      | 8A-06AFFM-SL7                                                                       |

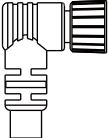
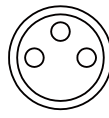
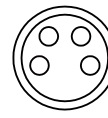
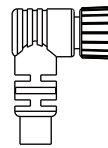
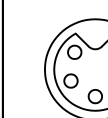
| Cable Type | 1M  | 3M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |



## **M8 (Plastic) > Receptacle > Male Connector > Front Fastened**

| > IEC 61076-2-104                                                                 |                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |                   |  |  |                                                                                   |                                                                                    |
| Backshell: Hexagonal                                                              |                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Type                                                                              | 2 Contacts        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                         |
| PCB Pin                                                                           | -                 | 8P-03PMMP-SF7001                                                                  | 8P-04PMMP-SF7001                                                                  | -                                                                                 | -                                                                                  |
| Solder Pin                                                                        | -                 | 8P-03PMMS-SF7001                                                                  | 8P-04PMMS-SF7001                                                                  | -                                                                                 | -                                                                                  |
| > with alignment Key                                                              |                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|  |                   |  |  |  |  |
| Backshell: Hexagonal                                                              |                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Type                                                                              | 2 Contacts        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                         |
| PCB Pin                                                                           | 8AP-02PMMP-SF7001 | 8AP-03PMMP-SF7001                                                                 | 8AP-04PMMP-SF7001                                                                 | 8AP-05PMMP-SF7001                                                                 | 8AP-06PMMP-SF7001                                                                  |
| Solder Pin                                                                        | 8AP-02PMMS-SF7001 | 8AP-03PMMS-SF7001                                                                 | 8AP-04PMMS-SF7001                                                                 | 8AP-05PMMS-SF7001                                                                 | 8AP-06PMMS-SF7001                                                                  |

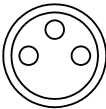
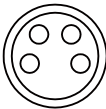
## **M8 (Plastic) > Overmolded with cable > Male Connector > Right Angle**

| > IEC 61076-2-104                                                                   |                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |                |  |  |                                                                                     |                                                                                      |
| Type                                                                                | 2 Contacts     | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                          | 6 Contacts                                                                           |
| With Strain Relief                                                                  | -              | 8P-03AMMM-SR7                                                                       | 8P-04AMMM-SR7                                                                       | -                                                                                   | -                                                                                    |
| Without Strain Relief                                                               | -              | 8P-03BMMM-SR7                                                                       | 8P-04BMMM-SR7                                                                       | -                                                                                   | -                                                                                    |
| > with alignment Key                                                                |                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|  |                |  |  |  |  |
| Type                                                                                | 2 Contacts     | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                          | 6 Contacts                                                                           |
| With Strain Relief                                                                  | 8AP-02AMMM-SR7 | 8AP-03AMMM-SR7                                                                      | 8AP-04AMMM-SR7                                                                      | 8AP-05AMMM-SR7                                                                      | 8AP-06AMMM-SR7                                                                       |

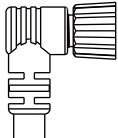
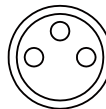
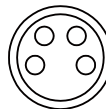
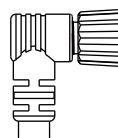
| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

## M8 (Plastic) > Overmolded with cable > Male Connector > Straight

| > IEC 61076-2-104                                                                |                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |                |  |  |                                                                                   |                                                                                    |
| Type                                                                             | 2 Contacts     | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                         |
| With Strain Relief                                                               | -              | 8P-03AMMM-SL7                                                                     | 8P-04AMMM-SL7                                                                     | -                                                                                 | -                                                                                  |
| Without Strain Relief                                                            | -              | 8P-03BMMM-SL7                                                                     | 8P-04BMMM-SL7                                                                     | -                                                                                 | -                                                                                  |
| > with alignment Key                                                             |                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|  |                |  |  |  |  |
| Type                                                                             | 2 Contacts     | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                         |
| With Strain Relief                                                               | 8AP-02AMMM-SL7 | 8AP-03AMMM-SL7                                                                    | 8AP-04AMMM-SL7                                                                    | 8AP-05AMMM-SL7                                                                    | 8AP-06AMMM-SL7                                                                     |

## M8 (Plastic) > Overmolded with cable > Female Connector > Right Angle

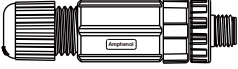
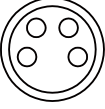
| > IEC 61076-2-104                                                                   |                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |                |  |  |                                                                                     |                                                                                      |
| Type                                                                                | 2 Contacts     | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                          | 6 Contacts                                                                           |
| With Strain Relief                                                                  | -              | 8P-03AFFM-SR7                                                                       | 8P-04AFFM-SR7                                                                       | -                                                                                   | -                                                                                    |
| Without Strain Relief                                                               | -              | 8P-03BFFM-SR7                                                                       | 8P-04BFFM-SR7                                                                       | -                                                                                   | -                                                                                    |
| > with alignment Key                                                                |                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|  |                |  |  |  |  |
| Type                                                                                | 2 Contacts     | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                          | 6 Contacts                                                                           |
| With Strain Relief                                                                  | 8AP-02AFFM-SR7 | 8AP-03AFFM-SR7                                                                      | 8AP-04AFFM-SR7                                                                      | 8AP-05AFFM-SR7                                                                      | 8AP-06AFFM-SR7                                                                       |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

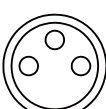
## M8 (Plastic) > Overmolded with cable > Female Connector > Straight

| > IEC 61076-2-104                                                                 |                |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                |  |  |                                                                                   |                                                                                     |
| Type                                                                              | 2 Contacts     | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                          |
| With Strain Relief                                                                | -              | 8P-03AFFM-SL7                                                                     | 8P-04AFFM-SL7                                                                     | -                                                                                 | -                                                                                   |
| Without Strain Relief                                                             | -              | 8P-03BFFM-SL7                                                                     | 8P-04BFFM-SL7                                                                     | -                                                                                 | -                                                                                   |
| * Mating style (Quick) also available for 3 & 4 contacts                          |                |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| > with alignment Key                                                              |                |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|  |                |  |  |  |  |
| Type                                                                              | 2 Contacts     | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                        | 6 Contacts                                                                          |
| With Strain Relief                                                                | 8AP-02AFFM-SL7 | 8AP-03AFFM-SL7                                                                    | 8AP-04AFFM-SL7                                                                    | 8AP-05AFFM-SL7                                                                    | 8AP-06AFFM-SL7                                                                      |
| * Mating style (Quick) also available for 3 & 4 contacts                          |                |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
| Cable Type                                                                        | 1M             | 3M                                                                                | 5M                                                                                | 10M                                                                               |                                                                                     |
| PVC                                                                               | A01            | A02                                                                               | A05                                                                               | A10                                                                               |                                                                                     |
| PU                                                                                | B01            | B02                                                                               | B05                                                                               | B10                                                                               |                                                                                     |

## M8 (Plastic) > Field Installable > Male Connector > Straight

|  |              |  |  |            |            |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|------------|
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts | 6 Contacts |
| Without Strain Relief                                                               | Solder       | -                                                                                   | -                                                                                   | -          | -          |
|                                                                                     | Screw-in     | 8P-03BMMB-SL7001                                                                    | 8P-04BMMB-SL7001                                                                    |            |            |

## M8 (Plastic) > Field Installable > Female Connector > Straight

|  |              |  |  |            |            |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|------------|
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts | 6 Contacts |
| Without Strain Relief                                                               | Solder       | -                                                                                   | -                                                                                   | -          | -          |
|                                                                                     | Screw-in     | -                                                                                   | 8P-04BFFB-SL7001                                                                    | -          | -          |

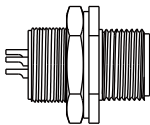
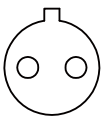
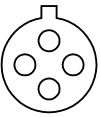
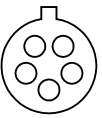
\* Design and specification are subject to change without notice.

**M10.5 (Metal)**

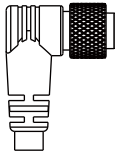
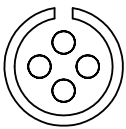
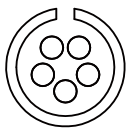
Receptacle &gt; Male Connector

Overmolded with Cable &gt; Male Connector

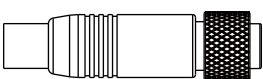
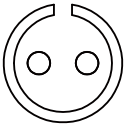
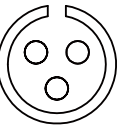
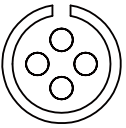
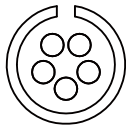
**IP 67 . 68** **9**Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated**└ M10.5 (Metal) > Receptacle > Male Connector > Rear Fastened**

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Backshell: Hexagonal<br>Backshell: Circular                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Type                                                                              | 2 Contacts                                                                        | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Backshell: Hexagonal<br>Solder Pin (180°)                                         | 105-02PMFS-SH7001                                                                 | 105-03PMFS-SH7001                                                                 | 105-04PMFS-SH7001                                                                 | 105-05PMFS-SH7001                                                                  |
| Backshell: Circular<br>Solder Pin (180°)                                          | 105-02PMFS-SC7001                                                                 | 105-03PMFS-SC7001                                                                 | 105-04PMFS-SC7001                                                                 | 105-05PMFS-SC7001                                                                  |

**└ M10.5 (Metal) > Overmolded with cable > Male Connector > Right Angle**

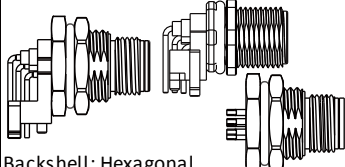
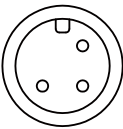
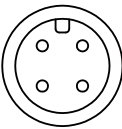
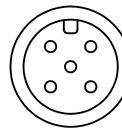
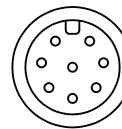
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|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Type                                                                               | 2 Contacts                                                                         | 3 Contacts                                                                         | 4 Contacts                                                                         | 5 Contacts                                                                          |
| With Strain Relief                                                                 | 105-02AMMM-SR7A                                                                    | 105-03AMMM-SR7A                                                                    | 105-04AMMM-SR7A                                                                    | 105-05AMMM-SR7A                                                                     |
| Without Strain Relief                                                              | 105-02BFMM-SR7A                                                                    | 105-03BFMM-SR7A                                                                    | 105-04BFMM-SR7A                                                                    | 105-05BFMM-SR7A                                                                     |

**└ M10.5 (Metal) > Overmolded with cable > Male Connector > Straight**

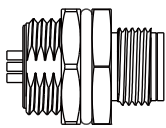
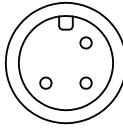
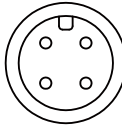
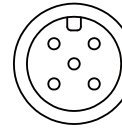
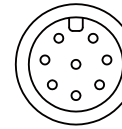
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|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Type                                                                               | 2 Contacts                                                                          | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| With Strain Relief                                                                 | 105-02AFMM-SL7A                                                                     | 105-03AFMM-SL7A                                                                     | 105-04AFMM-SL7A                                                                     | 105-05AFMM-SL7A                                                                      |
| Without Strain Relief                                                              | 105-02BFMM-SL7A                                                                     | 105-03BFMM-SL7A                                                                     | 105-04BFMM-SL7A                                                                     | 105-05BFMM-SL7A                                                                      |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

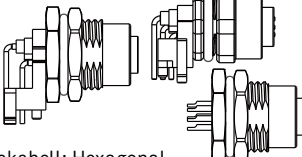
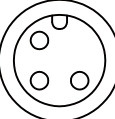
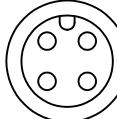
### **M12 A (Metal) > Receptacle > Male Connector > Front Fastened**

|  |                 |  |  |  |  |
|----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                             | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| PCB Pin (180°)                                                                   | PG9             | 12-03PMMP-SF8001                                                                  | 12-04PMMP-SF8001                                                                  | 12-05PMMP-SF8001                                                                   | 12-08PMMP-SF8001                                                                    |
|                                                                                  | M16.0           | 12-03PMMP-SF8003<br>12-03PMMP-SF8004                                              | 12-04PMMP-SF8003<br>12-04PMMP-SF8004                                              | 12-05PMMP-SF8003<br>12-05PMMP-SF8004                                               | 12-08PMMP-SF8003<br>12-08PMMP-SF8004                                                |
| PCB Pin (90°)                                                                    | M12             | 12-03PMMR-SF7001                                                                  | 12-04PMMR-SF7001                                                                  | 12-05PMMR-SF7001                                                                   | 12-08PMMR-SF7001                                                                    |
|                                                                                  | M12 (Shielded)  | 12S-03PMMR-SF7001                                                                 | 12S-04PMMR-SF7001                                                                 | 12S-05PMMR-SF7001                                                                  | 12S-08PMMR-SF7001                                                                   |
|                                                                                  | PG9             | 12-03PMMR-SF8001                                                                  | 12-04PMMR-SF8001                                                                  | 12-05PMMR-SF8001                                                                   | -                                                                                   |
|                                                                                  | M16.0           | 12-03PMMR-SF8003                                                                  | 12-04PMMR-SF8003                                                                  | 12-05PMMR-SF8003                                                                   | -                                                                                   |
| Solder Pin (180°)                                                                | PG9             | 12-03PMMS-SF8001                                                                  | 12-04PMMS-SF8001                                                                  | 12-05PMMS-SF8001                                                                   | 12-08PMMS-SF8001                                                                    |
|                                                                                  | M16.0           | 12-03PMMS-SF8003<br>12-03PMMS-SF8004                                              | 12-04PMMS-SF8003<br>12-04PMMS-SF8004                                              | 12-05PMMS-SF8003<br>12-05PMMS-SF8004                                               | 12-08PMMS-SF8003<br>12-08PMMS-SF8004                                                |
| Wire Leads (150mm)                                                               | PG9             | 12-03PMMS-SF8B15                                                                  | 12-04PMMS-SF8B15                                                                  | 12-05PMMS-SF8B15                                                                   | 12-08PMMS-SF8B15                                                                    |
|                                                                                  | M16.0           | 12-03PMMS-SF8C15                                                                  | 12-04PMMS-SF8C15                                                                  | 12-05PMMS-SF8C15                                                                   | 12-08PMMS-SF8C15                                                                    |
| Wire Leads (300mm)                                                               | PG9             | 12-03PMMS-SF8B30                                                                  | 12-04PMMS-SF8B30                                                                  | 12-05PMMS-SF8B30                                                                   | 12-08PMMS-SF8B30                                                                    |
|                                                                                  | M16.0           | 12-03PMMS-SF8C30                                                                  | 12-04PMMS-SF8C30                                                                  | 12-05PMMS-SF8C30                                                                   | 12-08PMMS-SF8C30                                                                    |
| Wire Leads (500mm)                                                               | PG9             | 12-03PMMS-SF8B50                                                                  | 12-04PMMS-SF8B50                                                                  | 12-05PMMS-SF8B50                                                                   | 12-08PMMS-SF8B50                                                                    |
|                                                                                  | M16.0           | 12-03PMMS-SF8C50                                                                  | 12-04PMMS-SF8C50                                                                  | 12-05PMMS-SF8C50                                                                   | 12-08PMMS-SF8C50                                                                    |

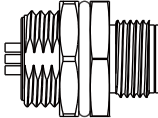
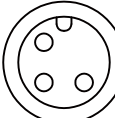
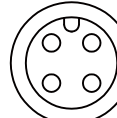
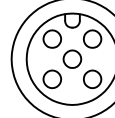
### **M12 A (Metal) > Receptacle > Male Connector > Rear Fastened**

|  |                 |  |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Mounting Thread | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Solder Pin (180°)                                                                   | PG9             | 12-03PMMS-SH8001                                                                    | 12-04PMMS-SH8001                                                                    | 12-05PMMS-SH8001                                                                     | 12-08PMMS-SH8001                                                                      |
|                                                                                     | M16.0           | 12-03PMMS-SH8003<br>12-03PMMS-SH8004                                                | 12-04PMMS-SH8003<br>12-04PMMS-SH8004                                                | 12-05PMMS-SH8003<br>12-05PMMS-SH8004                                                 | 12-08PMMS-SH8003<br>12-08PMMS-SH8004                                                  |
| Wire Leads (150mm)                                                                  | PG9             | 12-03PMMS-SH8B15                                                                    | 12-04PMMS-SH8B15                                                                    | 12-05PMMS-SH8B15                                                                     | 12-08PMMS-SH8B15                                                                      |
|                                                                                     | M16.0           | 12-03PMMS-SH8C15                                                                    | 12-04PMMS-SH8C15                                                                    | 12-05PMMS-SH8C15                                                                     | 12-08PMMS-SH8C15                                                                      |
| Wire Leads (300mm)                                                                  | PG9             | 12-03PMMS-SH8B30                                                                    | 12-04PMMS-SH8B30                                                                    | 12-05PMMS-SH8B30                                                                     | 12-08PMMS-SH8B30                                                                      |
|                                                                                     | M16.0           | 12-03PMMS-SH8C30                                                                    | 12-04PMMS-SH8C30                                                                    | 12-05PMMS-SH8C30                                                                     | 12-08PMMS-SH8C30                                                                      |
| Wire Leads (500mm)                                                                  | PG9             | 12-03PMMS-SH8B50                                                                    | 12-04PMMS-SH8B50                                                                    | 12-05PMMS-SH8B50                                                                     | 12-08PMMS-SH8B50                                                                      |
|                                                                                     | M16.0           | 12-03PMMS-SH8C50                                                                    | 12-04PMMS-SH8C50                                                                    | 12-05PMMS-SH8C50                                                                     | 12-08PMMS-SH8C50                                                                      |

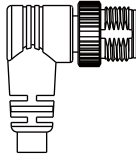
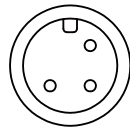
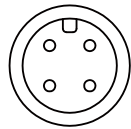
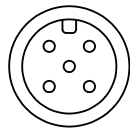
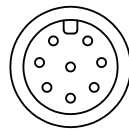
## M12 A (Metal) > Receptacle > Female Connector > Front Fastened

|  |                 |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| PCB Pin (180°)                                                                    | PG9             | 12-03PFFP-SF8001                                                                  | 12-04PFFP-SF8001                                                                  | 12-05PFFP-SF8001                                                                   | 12-08PFFP-SF8001                                                                    |
|                                                                                   | M16.0           | 12-03PFFP-SF8003<br>12-03PFFP-SF8004<br>12-03PFFP-SF8005                          | 12-04PFFP-SF8003<br>12-04PFFP-SF8004<br>12-04PFFP-SF8005                          | 12-05PFFP-SF8003<br>12-05PFFP-SF8004<br>12-05PFFP-SF8005                           | 12-08PFFP-SF8003<br>12-08PFFP-SF8004<br>12-08PFFP-SF8005                            |
| PCB Pin (90°)                                                                     | M12             | 12-03PFFR-SF7001                                                                  | 12-04PFFR-SF7001                                                                  | 12-05PFFR-SF7001                                                                   | 12-08PFFR-SF7001                                                                    |
|                                                                                   | M12 (Shielded)  | 12S-03PFFR-SF7001                                                                 | 12S-04PFFR-SF7001                                                                 | 12S-05PFFR-SF7001                                                                  | 12S-08PFFR-SF7001                                                                   |
|                                                                                   | PG9             | 12-03PFFR-SF8001                                                                  | 12-04PFFR-SF8001                                                                  | 12-05PFFR-SF8001                                                                   | -                                                                                   |
|                                                                                   | M16.0           | 12-03PFFR-SF8003                                                                  | 12-04PFFR-SF8003                                                                  | 12-05PFFR-SF8003                                                                   | -                                                                                   |
| Solder Pin (180°)                                                                 | PG9             | 12-03PFFS-SF8001                                                                  | 12-04PFFS-SF8001                                                                  | 12-05PFFS-SF8001                                                                   | 12-08PFFS-SF8001                                                                    |
|                                                                                   | M16.0           | 12-03PFFS-SF8003<br>12-03PFFS-SF8004                                              | 12-04PFFS-SF8003<br>12-04PFFS-SF8004                                              | 12-05PFFS-SF8003<br>12-05PFFS-SF8004                                               | 12-08PFFS-SF8003<br>12-08PFFS-SF8004                                                |
| Wire Leads (150mm)                                                                | PG9             | 12-03PFFS-SF8B15                                                                  | 12-04PFFS-SF8B15                                                                  | 12-05PFFS-SF8B15                                                                   | 12-08PFFS-SF8B15                                                                    |
|                                                                                   | M16.0           | 12-03PFFS-SF8C15                                                                  | 12-04PFFS-SF8C15                                                                  | 12-05PFFS-SF8C15                                                                   | 12-08PFFS-SF8C15                                                                    |
| Wire Leads (300mm)                                                                | PG9             | 12-03PFFS-SF8B30                                                                  | 12-04PFFS-SF8B30                                                                  | 12-05PFFS-SF8B30                                                                   | 12-08PFFS-SF8B30                                                                    |
|                                                                                   | M16.0           | 12-03PFFS-SF8C30                                                                  | 12-04PFFS-SF8C30                                                                  | 12-05PFFS-SF8C30                                                                   | 12-08PFFS-SF8C30                                                                    |
| Wire Leads (500mm)                                                                | PG9             | 12-03PFFS-SF8B50                                                                  | 12-04PFFS-SF8B50                                                                  | 12-05PFFS-SF8B50                                                                   | 12-08PFFS-SF8B50                                                                    |
|                                                                                   | M16.0           | 12-03PFFS-SF8C50                                                                  | 12-04PFFS-SF8C50                                                                  | 12-05PFFS-SF8C50                                                                   | 12-08PFFS-SF8C50                                                                    |

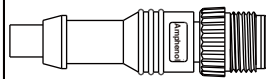
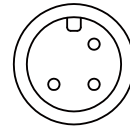
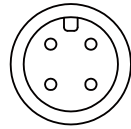
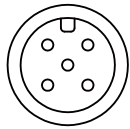
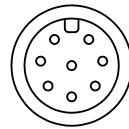
## M12 A (Metal) > Receptacle > Female Connector > Rear Fastened

|  |                 |  |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Mounting Thread | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Solder Pin (180°)                                                                   | PG9             | 12-03PFFS-SH8001                                                                    | 12-04PFFS-SH8001                                                                    | 12-05PFFS-SH8001                                                                     | 12-08PFFS-SH8001                                                                      |
|                                                                                     | M16.0           | 12-03PFFS-SH8003<br>12-03PFFS-SH8004                                                | 12-04PFFS-SH8003<br>12-04PFFS-SH8004                                                | 12-05PFFS-SH8003<br>12-05PFFS-SH8004                                                 | 12-08PFFS-SH8003<br>12-08PFFS-SH8004                                                  |
| Wire Leads (150mm)                                                                  | PG9             | 12-03PFFS-SH8B15                                                                    | 12-04PFFS-SH8B15                                                                    | 12-05PFFS-SH8B15                                                                     | 12-08PFFS-SH8B15                                                                      |
| Wire Leads (300mm)                                                                  | PG9             | 12-03PFFS-SH8B30                                                                    | 12-04PFFS-SH8B30                                                                    | 12-05PFFS-SH8B30                                                                     | 12-08PFFS-SH8B30                                                                      |
| Wire Leads (500mm)                                                                  | PG9             | 12-03PFFS-SH8B50                                                                    | 12-04PFFS-SH8B50                                                                    | 12-05PFFS-SH8B50                                                                     | 12-08PFFS-SH8B50                                                                      |

### **M12 A (Metal) > Overmolded with cable > Male Connector > Right Angle**

|  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| With Strain Relief                                                                | 12-03AMMM-SR7                                                                     | 12-04AMMM-SR7                                                                     | 12-05AMMM-SR7                                                                      | 12-08AMMM-SR7                                                                       |
| Without Strain Relief                                                             | 12-03BMMM-SR7<br>12-03BMMM-SR8                                                    | 12-04BMMM-SR7<br>12-04BMMM-SR8                                                    | 12-05BMMM-SR7<br>12-05BMMM-SR8                                                     | 12-08BMMM-SR7<br>12-08BMMM-SR8                                                      |

### **M12 A (Metal) > Overmolded with cable > Male Connector > Straight**

|  |  |  |  |  |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                             | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| With Strain Relief                                                               | 12-03AMMM-SL7                                                                     | 12-04AMMM-SL7                                                                     | 12-05AMMM-SL7                                                                      | 12-08AMMM-SL7                                                                       |
| Without Strain Relief                                                            | 12-03BMMM-SL7<br>12-03BMMM-SL8                                                    | 12-04BMMM-SL7<br>12-04BMMM-SL8                                                    | 12-05BMMM-SL7<br>12-05BMMM-SL8                                                     | 12-08BMMM-SL7<br>12-08BMMM-SL8                                                      |
|                                                                                  | 12S-03BMMM-SL7<br>(Shielded)                                                      | 12S-04BMMM-SL7<br>(Shielded)                                                      | 12S-05BMMM-SL7<br>(Shielded)                                                       | 12S-08BMMM-SL7<br>(Shielded)                                                        |

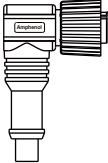
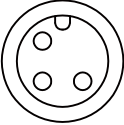
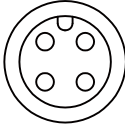
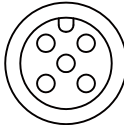
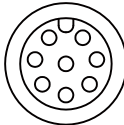
| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

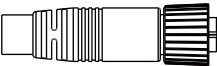
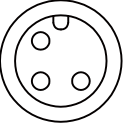
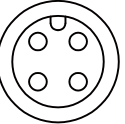
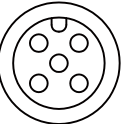
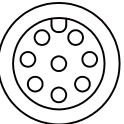
**M12 A Code (Metal)**

Overmolded with cable &gt; Female Connector

**IP 67 . 68** **9**Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated**└ M12 A (Metal) > Overmolded with cable > Female Connector > Right Angle**

|  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| With Strain Relief                                                                | 12-03AFFM-SR7                                                                     | 12-04AFFM-SR7                                                                     | 12-05AFFM-SR7                                                                      | 12-08AFFM-SR7                                                                       |
| Without Strain Relief                                                             | 12L-03BFFM-SR7<br>(With LED)                                                      | 12-04BFFM-SR8                                                                     | 12-05BFFM-SR8                                                                      | 12-08BFFM-SR8                                                                       |
|                                                                                   | 12-03BFFM-SR8                                                                     |                                                                                   |                                                                                    |                                                                                     |

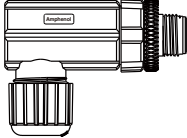
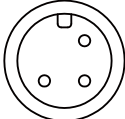
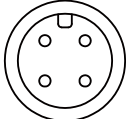
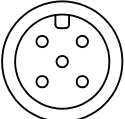
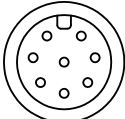
**└ M12 A (Metal) > Overmolded with cable > Female Connector > Straight**

|  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| With Strain Relief                                                                | 12-03AFFM-SL7                                                                     | 12-04AFFM-SL7                                                                     | 12-05AFFM-SL7                                                                      | 12-08AFFM-SL7                                                                       |
| Without Strain Relief                                                             | 12S-03BFFM-SL7<br>(Shielded)                                                      | 12S-04BFFM-SL7<br>(Shielded)                                                      | 12S-05BFFM-SL7<br>(Shielded)                                                       | 12S-08BFFM-SL7<br>(Shielded)                                                        |
|                                                                                   | 12-03BFFM-SL8                                                                     | 12-04BFFM-SL8                                                                     | 12-05BFFM-SL8                                                                      | 12-08BFFM-SL8                                                                       |

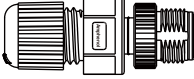
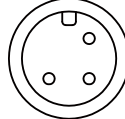
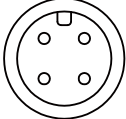
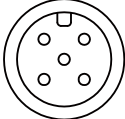
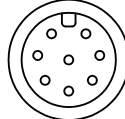
| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |



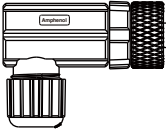
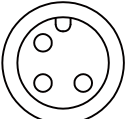
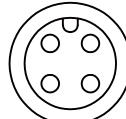
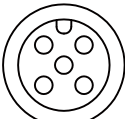
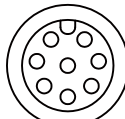
**└ M12 A (Metal) > Field Installable > Male Connector > Right Angle**

|  |              |  |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| Without Strain Relief                                                             | Screw Type   | 12-03BMMB-SR7001                                                                  | 12-04BMMB-SR7001                                                                  | 12-05BMMB-SR7001                                                                   | -                                                                                   |

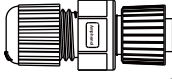
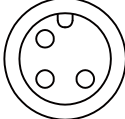
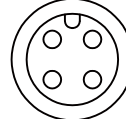
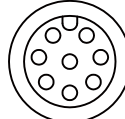
**└ M12 A (Metal) > Field Installable > Male Connector > Straight**

|  Solder Type<br> Screw Type |              |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                                                                                                                                        | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| Without Strain Relief                                                                                                                                                                       | Solder Type  | 12-03BMMA-SL8001                                                                  | 12-04BMMA-SL8001                                                                  | 12-05BMMA-SL8001                                                                   | 12-08BMMA-SL8001                                                                    |
|                                                                                                                                                                                             | Screw Type   | 12-03BMMB-SL7001                                                                  | 12-04BMMB-SL7001                                                                  | 12-05BMMB-SL7001                                                                   | -                                                                                   |

**└ M12 A (Metal) > Field Installable > Female Connector > Right Angle**

|  |              |  |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Without Strain Relief                                                               | Screw Type   | 12-03BFFB-SR7001                                                                    | 12-04BFFB-SR7001                                                                    | 12-05BFFB-SR7001                                                                     | -                                                                                     |

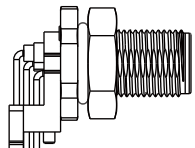
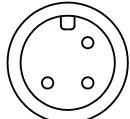
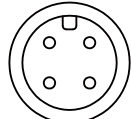
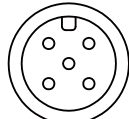
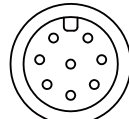
**└ M12 A (Metal) > Field Installable > Female Connector > Straight**

|  Solder Type<br> Screw Type |              |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                                                                                                                            | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Without Strain Relief                                                                                                                                                                           | Solder Type  | 12-03BFFA-SL8001                                                                    | 12-04BFFA-SL8001                                                                    | 12-05BFFA-SL8001                                                                     | 12-08BFFA-SL8001                                                                      |
|                                                                                                                                                                                                 | Screw Type   | 12-03BFFB-SL7001                                                                    | 12-04BFFB-SL7001                                                                    | 12-05BFFB-SL7001                                                                     | -                                                                                     |

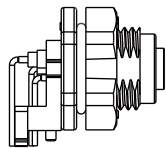
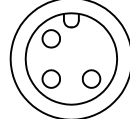
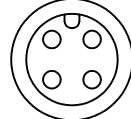
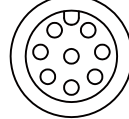
**M12 A Code (Plastic)**

Receptacle &gt; Male / Female Connector

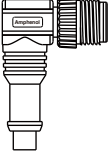
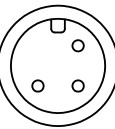
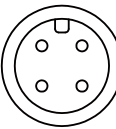
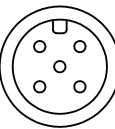
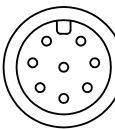
**IP 67 . 68** Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated**└ M12 A (Plastic) > Receptacle > Male Connector > Front Fastened**

|  |                 |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| PCB Pin (90°)                                                                     | M12             | 12P-03PMMR-SF8001                                                                 | 12P-04PMMR-SF8001                                                                 | 12P-05PMMR-SF8001                                                                  | -                                                                                   |

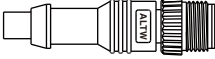
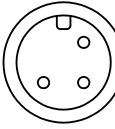
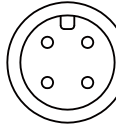
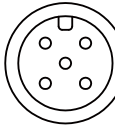
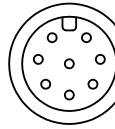
**└ M12 A (Plastic) > Receptacle > Female Connector > Front Fastened**

|  |                 |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| PCB Pin (180°)                                                                    | M16.0           | 12P-03PFFP-SF8003                                                                 | 12P-04PFFP-SF8003                                                                 | 12P-05PFFP-SF8003                                                                  | 12P-08PFFP-SF8003                                                                   |
| PCB Pin (90°)                                                                     | M16.0           | 12P-03PFFR-SF8003                                                                 | 12P-04PFFR-SF8003                                                                 | 12P-05PFFR-SF8003                                                                  | -                                                                                   |
| Solder Pin (180°)                                                                 | M16.0           | 12P-03PFFS-SF8003                                                                 | 12P-04PFFS-SF8003                                                                 | 12P-05PFFS-SF8003                                                                  | 12P-08PFFS-SF8003                                                                   |

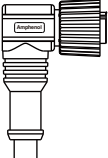
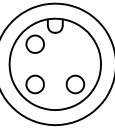
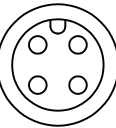
### M12 A (Plastic) > Overmolded with cable > Male Connector > Right Angle

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| Without Strain Relief                                                             | 12P-03BMMM-SR8                                                                    | 12P-04BMMM-SR8                                                                    | 12P-05BMMM-SR8                                                                     | 12P-08BMMM-SR8                                                                      |

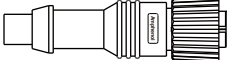
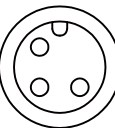
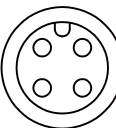
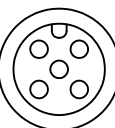
### M12 A (Plastic) > Overmolded with cable > Male Connector > Straight

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| Without Strain Relief                                                             | 12P-03BMMM-SL8                                                                    | 12P-04BMMM-SL8                                                                    | 12P-05BMMM-SL8                                                                     | 12P-08BMMM-SL8                                                                      |

### M12 A (Plastic) > Overmolded with cable > Female Connector > Right Angle

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Type                                                                                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Without Strain Relief                                                               | 12P-03BFFM-SR8                                                                      | 12P-04BFFM-SR8                                                                      | 12P-05BFFM-SR8                                                                       | 12P-08BFFM-SR8                                                                        |

### M12 A (Plastic) > Overmolded with cable > Female Connector > Straight

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| Type                                                                                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Without Strain Relief                                                               | 12P-03BFFM-SL8                                                                      | 12P-04BFFM-SL8                                                                      | 12P-05BFFM-SL8                                                                       | 12P-08BFFM-SL8                                                                        |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

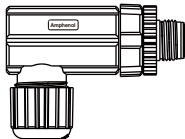
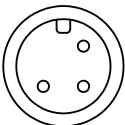
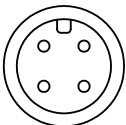
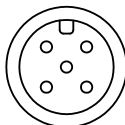
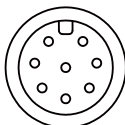
**M12 A Code (Plastic)**

Field Installable &gt; Male / Female Connector

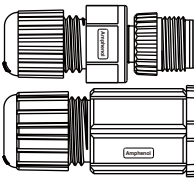
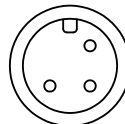
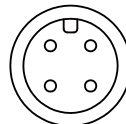
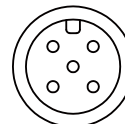
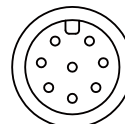
**IP 67 . 68** 

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

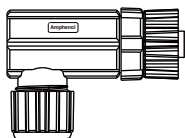
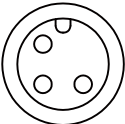
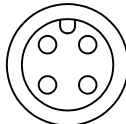
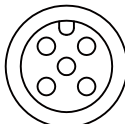
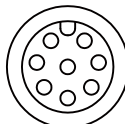
**└ M12 A (Plastic) > Field Installable > Male Connector > Right Angle**

|  |              |  |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| Without Strain Relief                                                             | Solder Type  | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |
|                                                                                   | Screw Type   | 12P-03BMMB-SR7001                                                                 | 12P-04BMMB-SR7001                                                                 | 12P-05BMMB-SR7001                                                                  | -                                                                                   |

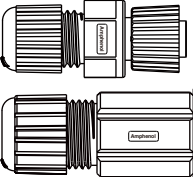
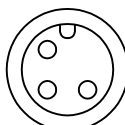
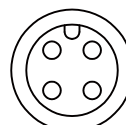
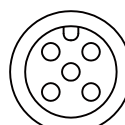
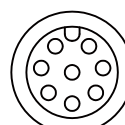
**└ M12 A (Plastic) > Field Installable > Male Connector > Straight**

|  <div>Solder Type</div> <div>Screw Type</div> |              |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                                                                           | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         | 8 Contacts                                                                          |
| Without Strain Relief                                                                                                          | Solder Type  | 12P-03BMMA-SL7001<br>12P-03BMMA-SL8001                                            | 12P-04BMMA-SL7001<br>12P-04BMMA-SL8001                                            | 12P-05BMMA-SL7001<br>12P-05BMMA-SL8001                                             | 12P-08BMMA-SL8001                                                                   |
|                                                                                                                                | Screw Type   | 12P-03BMMB-SL7001                                                                 | 12P-04BMMB-SL7001                                                                 | 12P-05BMMB-SL7001                                                                  |                                                                                     |

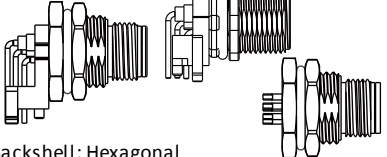
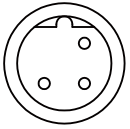
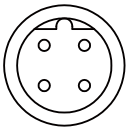
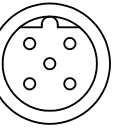
**└ M12 A (Plastic) > Field Installable > Female Connector > Right Angle**

|  |              |  |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Without Strain Relief                                                               | Solder Type  | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                     |
|                                                                                     | Screw Type   | 12P-03BFFB-SR7001                                                                   | 12P-04BFFB-SR7001                                                                   | 12P-05BFFB-SR7001                                                                    | -                                                                                     |

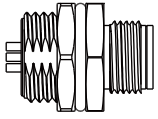
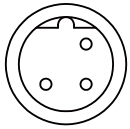
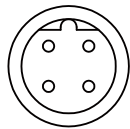
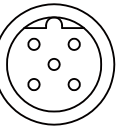
**└ M12 A (Plastic) > Field Installable > Female Connector > Straight**

|  <div>Solder Type</div> <div>Screw Type</div> |              |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                                                            | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           | 8 Contacts                                                                            |
| Without Strain Relief                                                                                                           | Solder Type  | 12P-03BFFA-SL8001                                                                   | 12P-04BFFA-SL8001                                                                   | 12P-05BFFA-SL8001                                                                    | 12P-08BFFA-SL8001                                                                     |
|                                                                                                                                 | Screw Type   | 12P-03BFFB-SL7001                                                                   | 12P-04BFFB-SL7001                                                                   | 12P-05BFFB-SL7001                                                                    |                                                                                       |

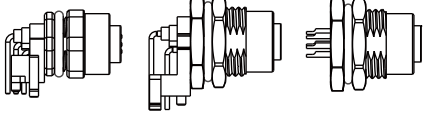
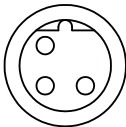
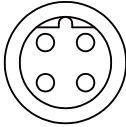
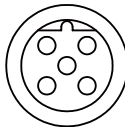
## 

|  |                 |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (180°)                                                                    | PG9             | 12B-03PMMP-SF8001                                                                 | 12B-04PMMP-SF8001                                                                  | 12B-05PMMP-SF8001                                                                   |
|                                                                                   | M16             | 12B-03PMMP-SF8003                                                                 | 12B-04PMMP-SF8003<br>12B-04PMMP-SF8004                                             | 12B-05PMMP-SF8003<br>12B-05PMMP-SF8004                                              |
| PCB Pin (90°)                                                                     | M12             | -                                                                                 | -                                                                                  | SBS-05PMMR-SF7001                                                                   |
|                                                                                   | PG9             | 12B-03PMMR-SF8001                                                                 | 12B-04PMMR-SF8001                                                                  | 12B-05PMMR-SF8001<br>12B-05PMMR-SF7001                                              |
|                                                                                   | M16             | 12B-03PMMR-SF8003                                                                 | 12B-04PMMR-SF8003                                                                  | 12B-05PMMR-SF8003                                                                   |
| Solder Pin (180°)                                                                 | PG9             | 12B-03PMMS-SF8001                                                                 | 12B-04PMMS-SF8001                                                                  | 12B-05PMMS-SF8001                                                                   |
|                                                                                   | M16             | 12B-03PMMS-SF8003                                                                 | 12B-04PMMS-SF8003<br>12B-04PMMS-SF8004                                             | 12B-05PMMS-SF8003<br>12B-05PMMS-SF8004                                              |
| Wire Leads (150mm)                                                                | PG9             | -                                                                                 | -                                                                                  | 12B-05PMMS-SF8B15                                                                   |
|                                                                                   | M16             | -                                                                                 | -                                                                                  | 12B-05PMMS-SF8C15                                                                   |
| Wire Leads (300mm)                                                                | PG9             | -                                                                                 | -                                                                                  | 12B-05PMMS-SF8B30                                                                   |
|                                                                                   | M16             | -                                                                                 | -                                                                                  | 12B-05PMMS-SF8C30                                                                   |
| Wire Leads (500mm)                                                                | PG9             | -                                                                                 | -                                                                                  | 12B-05PMMS-SF8B50                                                                   |
|                                                                                   | M16             | -                                                                                 | -                                                                                  | 12B-05PMMS-SF8C50                                                                   |

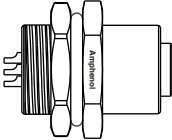
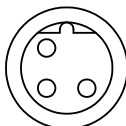
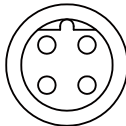
## 

|  |                 |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Mounting Thread | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| PCB Pin (180°)                                                                      | PG9             | 12B-03PMMS-SH8001                                                                   | 12B-04PMMS-SH8001                                                                    | 12B-05PMMS-SH8001                                                                     |
|                                                                                     | M16             | 12B-03PMMS-SH8003                                                                   | 12B-04PMMS-SH8003<br>12B-04PMMS-SH8004                                               | 12B-05PMMS-SH8003<br>12B-05PMMS-SH8004                                                |
| Wire Leads (150mm)                                                                  | PG9             | -                                                                                   | -                                                                                    | 12B-05PMMS-SH8B15                                                                     |
|                                                                                     | M16             | -                                                                                   | -                                                                                    | 12B-05PMMS-SH8C15                                                                     |
| Wire Leads (300mm)                                                                  | PG9             | -                                                                                   | -                                                                                    | 12B-05PMMS-SH8B30                                                                     |
|                                                                                     | M16             | -                                                                                   | -                                                                                    | 12B-05PMMS-SH8C30                                                                     |
| Wire Leads (500mm)                                                                  | PG9             | -                                                                                   | -                                                                                    | 12B-05PMMS-SH8B50                                                                     |
|                                                                                     | M16             | -                                                                                   | -                                                                                    | 12B-05PMMS-SH8C50                                                                     |

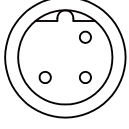
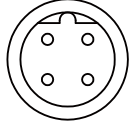
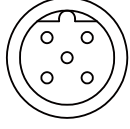
## M12 B (Metal) Receptacle > Female Connector > Front Fastened

|  |                 |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (180°)                                                                    | PG9             | 12B-03PFFP-SF8001                                                                 | 12B-04PFFP-SF8001                                                                  | 12B-05PFFP-SF8001                                                                   |
|                                                                                   | M16             | 12B-03PFFP-SF8003                                                                 | 12B-04PFFP-SF8003<br>12B-04PFFP-SF8004<br>12B-04PFFP-SF8005                        | 12B-05PFFP-SF8003<br>12B-05PFFP-SF8004<br>12B-05PFFP-SF8005                         |
| PCB Pin (90°)                                                                     | M12             | -                                                                                 | -                                                                                  | SBS-05PFFR-SF7001                                                                   |
|                                                                                   | PG9             | 12B-03PFFR-SF8001                                                                 | 12B-04PFFR-SF8001                                                                  | 12B-05PFFR-SF8001<br>12B-05PFFR-SF7001                                              |
|                                                                                   | M16             | 12B-03PFFR-SF8003                                                                 | 12B-04PFFR-SF8003                                                                  | 12B-05PFFR-SF8003                                                                   |
| Solder Pin (180°)                                                                 | PG9             | 12B-03PFFS-SF8001                                                                 | 12B-04PFFS-SF8001                                                                  | 12B-05PFFS-SF8001                                                                   |
|                                                                                   | M16             | 12B-03PFFS-SF8003                                                                 | 12B-04PFFS-SF8003<br>12B-04PFFS-SF8004                                             | 12B-05PFFS-SF8003<br>12B-05PFFS-SF8004                                              |
| Wire Leads (150mm)                                                                | PG9             | -                                                                                 | -                                                                                  | 12B-05PFFS-SF8B15                                                                   |
|                                                                                   | M16             | -                                                                                 | -                                                                                  | 12B-05PFFS-SF8C15                                                                   |
| Wire Leads (300mm)                                                                | PG9             | -                                                                                 | -                                                                                  | 12B-05PFFS-SF8B30                                                                   |
|                                                                                   | M16             | -                                                                                 | -                                                                                  | 12B-05PFFS-SF8C30                                                                   |
| Wire Leads (500mm)                                                                | PG9             | -                                                                                 | -                                                                                  | 12B-05PFFS-SF8B50                                                                   |
|                                                                                   | M16             | -                                                                                 | -                                                                                  | 12B-05PFFS-SF8C50                                                                   |

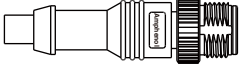
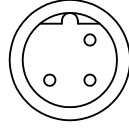
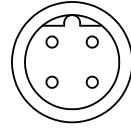
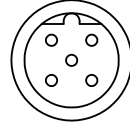
## M12 B (Metal) > Receptacle > Female Connector > Rear Fastened

|  |                 |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Mounting Thread | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| PCB Pin (180°)                                                                      | PG9             | 12B-03PFFS-SH8001                                                                   | 12B-04PFFS-SH8001                                                                    | 12B-05PFFS-SH8001                                                                     |
|                                                                                     | M16             | 12B-03PFFS-SH8003                                                                   | 12B-04PFFS-SH8003<br>12B-04PFFS-SH8004                                               | 12B-05PFFS-SH8003<br>12B-05PFFS-SH8004                                                |
| Wire Leads (150mm)                                                                  | PG9             | -                                                                                   | -                                                                                    | 12B-05PFFS-SH8B15                                                                     |
| Wire Leads (300mm)                                                                  | PG9             | -                                                                                   | -                                                                                    | 12B-05PFFS-SH8B30                                                                     |
| Wire Leads (500mm)                                                                  | PG9             | -                                                                                   | -                                                                                    | 12B-05PFFS-SH8B50                                                                     |

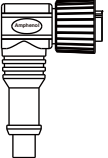
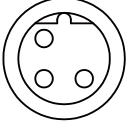
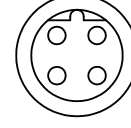
### M12 B (Metal) > Overmolded with cable > Male Connector > Right Angle

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | 12B-03BMMM-SR8                                                                    | 12B-04BMMM-SR8                                                                    | 12B-05BMMM-SR8                                                                     |

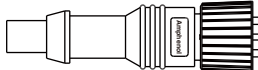
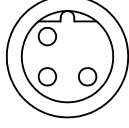
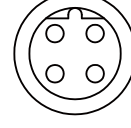
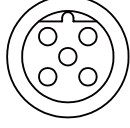
### M12 B (Metal) > Overmolded with cable > Male Connector > Straight

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | 12B-03BMMM-SL8                                                                    | 12B-04BMMM-SL8                                                                    | 12B-05BMMM-SL8                                                                     |

### M12 B (Metal) > Overmolded with cable > Female Connector > Right Angle

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| Without Strain Relief                                                               | 12B-03BFFM-SR8                                                                      | 12B-04BFFM-SR8                                                                      | 12B-05BFFM-SR8                                                                       |

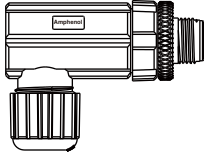
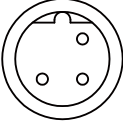
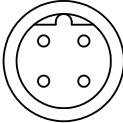
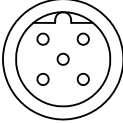
### MM12 B (Metal) > Overmolded with cable > Female Connector > Straight

|                                                                                    |                                                                                     |                                                                                     |                                                                                      |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                               | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| Without Strain Relief                                                              | 12B-03BFFM-SL8                                                                      | 12B-04BFFM-SL8                                                                      | 12B-05BFFM-SL8                                                                       |

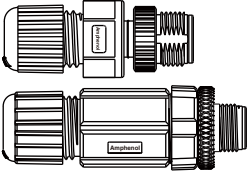
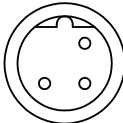
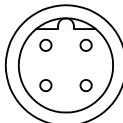
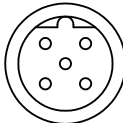
| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

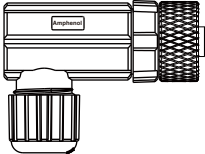
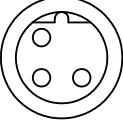
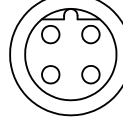
**└ M12 B (Metal) > Field Installable > Male Connector > Right Angle**

|  |              |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                             | Screw Type   | 12B-03BMMB-SR7001                                                                 | 12B-04BMMB-SR7001                                                                  | 12B-05BMMB-SR7001                                                                   |

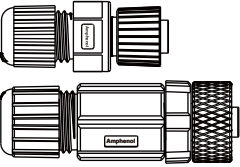
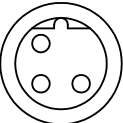
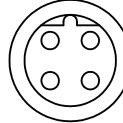
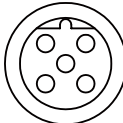
**└ M12 B (Metal) > Field Installable > Male Connector > Straight**

|  <div>Solder Type</div> <div>Screw Type</div> |              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                                                                           | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                                                                          | Solder Type  | 12B-03BMMA-SL8001                                                                 | 12B-04BMMA-SL8001                                                                  | 12B-05BMMA-SL8001                                                                   |
|                                                                                                                                | Screw Type   | 12B-03BMMB-SL7001                                                                 | 12B-04BMMB-SL7001                                                                  | 12B-05BMMB-SL7001                                                                   |

**└ M12 B (Metal) > Field Installable > Female Connector > Right Angle**

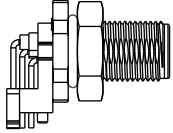
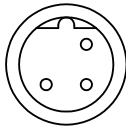
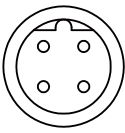
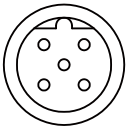
|  |              |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                               | Screw Type   | 12B-03BFFB-SR7001                                                                   | 12B-04BFFB-SR7001                                                                    | 12B-05BFFB-SR7001                                                                     |

**└ M12 B (Metal) > Field Installable > Female Connector > Straight**

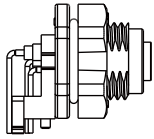
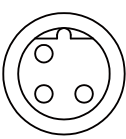
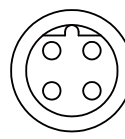
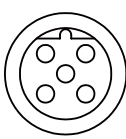
|  <div>Solder Type</div> <div>Screw Type</div> |              |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                                                             | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                                                                            | Solder Type  | 12B-03BFFA-SL8001                                                                   | 12B-04BFFA-SL8001                                                                    | 12B-05BFFA-SL8001                                                                     |
|                                                                                                                                  | Screw Type   | 12B-03BFFB-SL7001                                                                   | 12B-04BFFB-SL7001                                                                    | 12B-05BFFB-SL7001                                                                     |



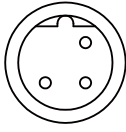
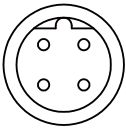
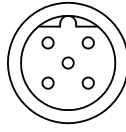
### **M12 B (Plastic) > Receptacle > Male Connector > Front Fastened**

|                                                                                   |                 |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                 |  |  |  |
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (90°)                                                                     | M12             | -                                                                                 | -                                                                                  | SBP-05PMMR-SF8001                                                                   |

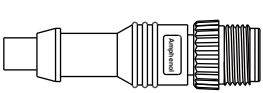
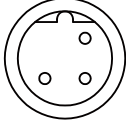
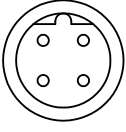
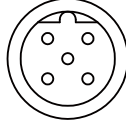
### **M12 B (Plastic) > Receptacle > Female Connector > Front Fastened**

|                                                                                   |                 |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                 |  |  |  |
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (90°)                                                                     | M12             | -                                                                                 | -                                                                                  | SBP-05PFFR-SF8001                                                                   |

### **M12 B (Plastic) > Overmolded with cable > Male Connector > Right Angle**

|                                                                                     |                |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |                |  |  |  |
| Type                                                                                | 3 Contacts     | 4 Contacts                                                                          | 5 Contacts                                                                          |                                                                                      |
| Without Strain Relief                                                               | SBP-03BMMM-SR8 | SBP-04BMMM-SR8                                                                      | SBP-05BMMM-SR8                                                                      |                                                                                      |

### **M12 B (Plastic) > Overmolded with cable > Male Connector > Straight**

|                                                                                    |                |                                                                                     |                                                                                     |                                                                                      |
|------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |                |  |  |  |
| Type                                                                               | 3 Contacts     | 4 Contacts                                                                          | 5 Contacts                                                                          |                                                                                      |
| Without Strain Relief                                                              | SBP-03BMMM-SL8 | SBP-04BMMM-SL8                                                                      | SBP-05BMMM-SL8                                                                      |                                                                                      |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

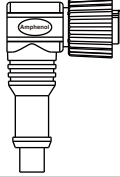
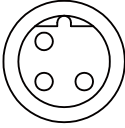
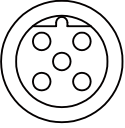
M12 B Code (Plastic)

Overmolded with cable > Female Connector  
Field Installable > Male Connector

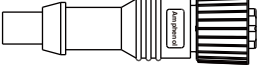
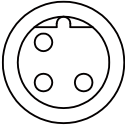
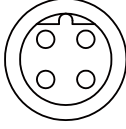
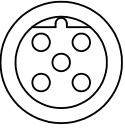
IP 67 . 68 9

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

└ M12 B (Plastic) > Overmolded with cable > Female Connector > Right Angle

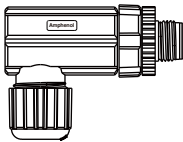
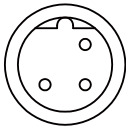
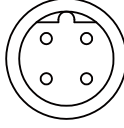
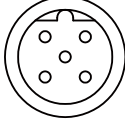
|                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | SBP-03BFFM-SR8                                                                    | SBP-04BFFM-SR8                                                                    | SBP-05BFFM-SR8                                                                     |

└ M12 B (Plastic) > Overmolded with cable > Female Connector > Straight

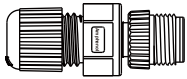
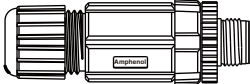
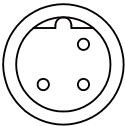
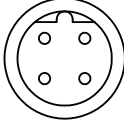
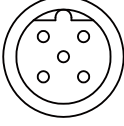
|                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | SBP-03BFFM-SL8                                                                    | SBP-04BFFM-SL8                                                                    | SBP-05BFFM-SL8                                                                     |

|            |     |     |     |     |
|------------|-----|-----|-----|-----|
| Cable Type | 1M  | 3M  | 5M  | 10M |
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

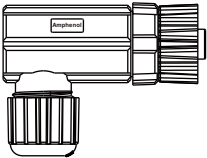
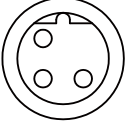
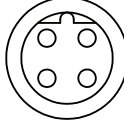
└ M12 B (Plastic) > Field Installable > Male Connector > Right Angle

|                                                                                     |              |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |              |  |  |  |
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                               | Screw Type   | SBP-03BMMB-SR7001                                                                   | SBP-04BMMB-SR7001                                                                    | SBP-05BMMB-SR7001                                                                     |

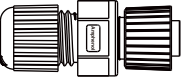
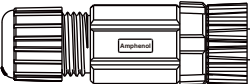
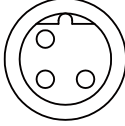
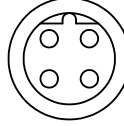
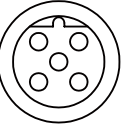
### **M12 B (Plastic) > Field Installable > Male Connector > Straight**

|  Solder Type<br> Screw Type |              |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                               |              | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Type                                                                                                                                                                                          | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                                                                                                                                         | Solder Type  | SBP-03BMMA-SL8001                                                                 | SBP-04BMMA-SL8001                                                                  | SBP-05BMMA-SL8001                                                                   |
|                                                                                                                                                                                               | Screw Type   | SBP-03BMMB-SL7001                                                                 | SBP-04BMMB-SL7001                                                                  | SBP-05BMMB-SL7001                                                                   |

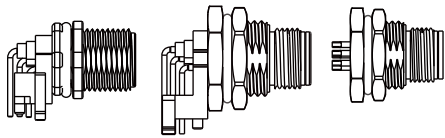
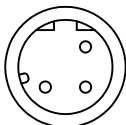
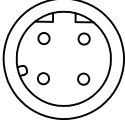
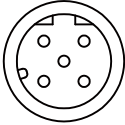
### **M12 B (Plastic) > Field Installable > Female Connector > Right Angle**

|  |              |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                             | Screw Type   | SBP-03BFFB-SR7001                                                                 | SBP-04BFFB-SR7001                                                                  | SBP-05BFFB-SR7001                                                                   |

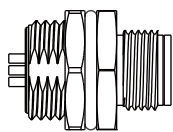
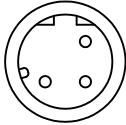
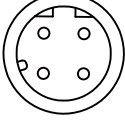
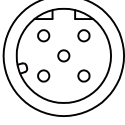
### **M12 B (Plastic) > Field Installable > Female Connector > Straight**

|  Solder Type<br> Screw Type |              |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                                                                                                                              | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                                                                                                                                             | Solder Type  | SBP-03BFFA-SL8001                                                                   | SBP-04BFFA-SL8001                                                                    | SBP-05BFFA-SL8001                                                                     |
|                                                                                                                                                                                                   | Screw Type   | SBP-03BFFB-SL7001                                                                   | SBP-04BFFB-SL7001                                                                    | SBP-05BFFB-SL7001                                                                     |

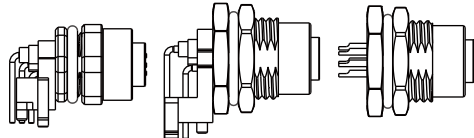
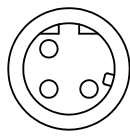
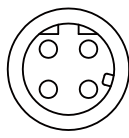
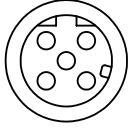
## M12 D (Metal) > Receptacle > Male Connector > Front Fastened

|  |                 |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (180°)                                                                    | PG9             | -                                                                                 | 12D-04PMMP-SF8001                                                                  | 12D-05PMMP-SF8001                                                                   |
|                                                                                   | M16.0           | -                                                                                 | 12D-04PMMP-SF8003<br>12D-04PMMP-SF8004                                             | 12D-05PMMP-SF8003<br>12D-05PMMP-SF8004                                              |
| PCB Pin (90°)                                                                     | PG9             | -                                                                                 | 12D-04PMMR-SF7001<br>12D-04PMMR-SF8001                                             | -                                                                                   |
|                                                                                   | M12             | -                                                                                 | 12D-04PMMR-SF7007                                                                  | -                                                                                   |
|                                                                                   | M12 (Shielded)  | -                                                                                 | SDS-04PMMR-SF7007                                                                  | -                                                                                   |
| Solder Pin (180°)                                                                 | PG9             | 12D-03PMMS-SF8001                                                                 | 12D-04PMMS-SF8001                                                                  | 12D-05PMMS-SF8001                                                                   |
|                                                                                   | M16.0           | -                                                                                 | 12D-04PMMS-SF8003<br>12D-04PMMS-SF8004                                             | 12D-05PMMS-SF8003<br>12D-05PMMS-SF8004                                              |
| Wire Leads (150mm)                                                                | PG9             | -                                                                                 | 12D-04PMMS-SF8B15                                                                  | -                                                                                   |
|                                                                                   | M16.0           | -                                                                                 | 12D-04PMMS-SF8C15                                                                  | -                                                                                   |
| Wire Leads (300mm)                                                                | PG9             | -                                                                                 | 12D-04PMMS-SF8B30                                                                  | -                                                                                   |
|                                                                                   | M16.0           | -                                                                                 | 12D-04PMMS-SF8C30                                                                  | -                                                                                   |
| Wire Leads (500mm)                                                                | PG9             | -                                                                                 | 12D-04PMMS-SF8B50                                                                  | -                                                                                   |
|                                                                                   | M16.0           | -                                                                                 | 12D-04PMMS-SF8C50                                                                  | -                                                                                   |

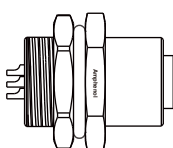
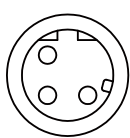
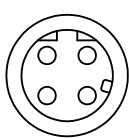
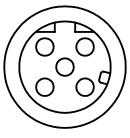
## M12 D (Metal) > Receptacle > Male Connector > Rear Fastened

|  |                 |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Mounting Thread | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Solder Pin (180°)                                                                   | PG9             | 12D-03PMMS-SH8001                                                                   | 12D-04PMMS-SH8001                                                                    | 12D-05PMMS-SH8001                                                                     |
|                                                                                     | M16.0           | -                                                                                   | 12D-04PMMS-SH8003<br>12D-04PMMS-SH8004                                               | 12D-05PMMS-SH8003<br>12D-04PMMS-SH8004                                                |
| Wire Leads (150mm)                                                                  | PG9             | -                                                                                   | 12D-04PMMS-SH8B15                                                                    | -                                                                                     |
|                                                                                     | M16.0           | -                                                                                   | 12D-04PMMS-SH8C15                                                                    | -                                                                                     |
| Wire Leads (300mm)                                                                  | PG9             | -                                                                                   | 12D-04PMMS-SH8B30                                                                    | -                                                                                     |
|                                                                                     | M16.0           | -                                                                                   | 12D-04PMMS-SH8C30                                                                    | -                                                                                     |
| Wire Leads (500mm)                                                                  | PG9             | -                                                                                   | 12D-04PMMS-SH8B50                                                                    | -                                                                                     |
|                                                                                     | M16.0           | -                                                                                   | 12D-04PMMS-SH8C50                                                                    | -                                                                                     |

## **M12 D (Metal) > Receptacle > Female Connector > Front Fastened**

|  |                 |  |  |  |
|----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Backshell: Hexagonal                                                             |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                             | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (180°)                                                                   | PG9             | 12D-03PFFP-SF8001                                                                 | 12D-04PFFP-SF8001                                                                  | 12D-05PFFP-SF8001                                                                   |
|                                                                                  | M16.0           | -                                                                                 | 12D-04PFFP-SF8003<br>12D-04PFFP-SF8004<br>12D-04PFFP-SF8005                        | 12D-05PFFP-SF8003<br>12D-05PFFP-SF8004<br>12D-05PFFP-SF8005                         |
| PCB Pin (90°)                                                                    | PG9             | 12D-03PFFR-SF8001                                                                 | 12D-04PFFR-SF7001<br>12D-04PFFR-SF8001                                             | 12D-05PFFR-SF8001                                                                   |
|                                                                                  | M16.0           | 12D-03PFFR-SF8003                                                                 | 12D-04PFFR-SF8003                                                                  | 12D-05PFFR-SF8003                                                                   |
|                                                                                  | M12             | -                                                                                 | 12D-04PFFR-SF7007                                                                  | -                                                                                   |
|                                                                                  | M12 (Shielded)  |                                                                                   | SDS-04PFFR-SF7007                                                                  |                                                                                     |
| Solder Pin (180°)                                                                | PG9             | 12D-03PFFS-SF8001                                                                 | 12D-04PFFS-SF8001                                                                  | 12D-05PFFS-SF8001                                                                   |
|                                                                                  | M16.0           | 12D-03PFFS-SF8003                                                                 | 12D-04PFFS-SF8003<br>12D-04PFFS-SF8004                                             | 12D-05PFFS-SF8003<br>12D-05PFFS-SF8004                                              |
| Wire Leads (150mm)                                                               | PG9             | -                                                                                 | 12D-04PFFS-SF8B15                                                                  | -                                                                                   |
|                                                                                  | M16.0           | -                                                                                 | 12D-04PFFS-SF8C15                                                                  | -                                                                                   |
| Wire Leads (300mm)                                                               | PG9             | -                                                                                 | 12D-04PFFS-SF8B30                                                                  | -                                                                                   |
|                                                                                  | M16.0           | -                                                                                 | 12D-04PFFS-SF8C30                                                                  | -                                                                                   |
| Wire Leads (500mm)                                                               | PG9             | -                                                                                 | 12D-04PFFS-SF8B50                                                                  | -                                                                                   |
|                                                                                  | M16.0           | -                                                                                 | 12D-04PFFS-SF8C50                                                                  | -                                                                                   |

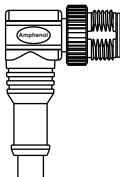
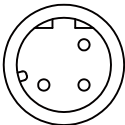
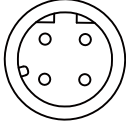
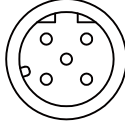
## **M12 D (Metal) > Receptacle > Female Connector > Rear Fastened**

|  |                 |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Mounting Thread | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Solder Pin (180°)                                                                   | PG9             | 12D-03PFFS-SH8001                                                                   | 12D-04PFFS-SH8001                                                                    | 12D-05PFFS-SH8001                                                                     |
|                                                                                     | M16.0           | 12D-03PFFS-SH8003                                                                   | 12D-04PFFS-SH8003<br>12D-04PFFS-SH8004                                               | 12D-05PFFS-SH8003<br>12D-05PFFS-SH8004                                                |
| Wire Leads (150mm)                                                                  | PG9             | -                                                                                   | 12D-04PFFS-SH8B15                                                                    | -                                                                                     |
| Wire Leads (300mm)                                                                  | PG9             | -                                                                                   | 12D-04PFFS-SH8B30                                                                    | -                                                                                     |
| Wire Leads (500mm)                                                                  | PG9             | -                                                                                   | 12D-04PFFS-SH8B50                                                                    | -                                                                                     |

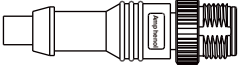
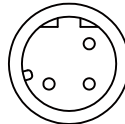
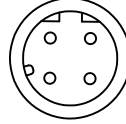
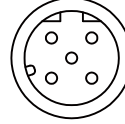
**M12 D Code (Metal)**

Overmolded with cable &gt; Male / Female Connector

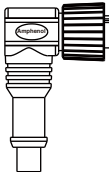
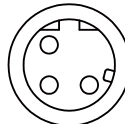
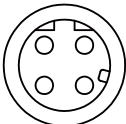
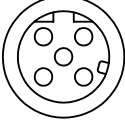
**IP 67 . 68** **9**Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated**└ M12 D (Metal) > Overmolded with cable > Male Connector > Right Angle**

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | 12D-03BMMM-SR8                                                                    | 12D-04BMMM-SR8                                                                    | 12D-05BMMM-SR8                                                                     |

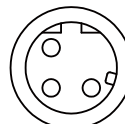
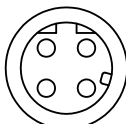
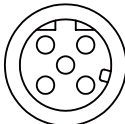
**└ M12 D (Metal) > Overmolded with cable > Male Connector > Straight**

|                                                                                   |                                                                                   |                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | 12D-03BMMM-SL8                                                                    | 12D-04BMMM-SL8                                                                    | 12D-05BMMM-SL8                                                                     |

**└ M12 D (Metal) > Overmolded with cable > Female Connector > Right Angle**

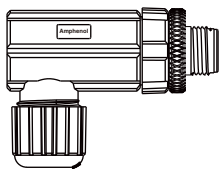
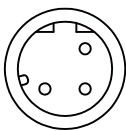
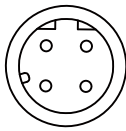
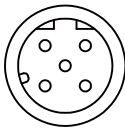
|                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| Without Strain Relief                                                               | 12D-03BFFM-SR8                                                                      | 12D-04BFFM-SR8                                                                      | 12D-05BFFM-SR8                                                                       |

**└ M12 D (Metal) > Overmolded with cable > Female Connector > Straight**

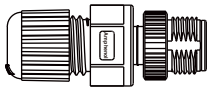
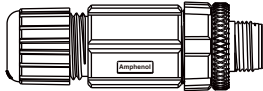
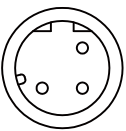
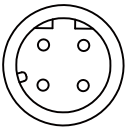
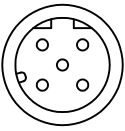
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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| Type                                                                                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| Without Strain Relief                                                               | 12D-03BFFM-SL8                                                                      | 12D-04BFFM-SL8                                                                      | 12D-05BFFM-SL8                                                                       |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

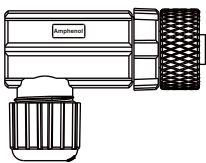
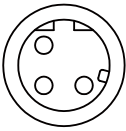
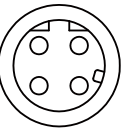
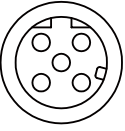
### └ M12 D (Metal) > Field Installable > Male Connector > Right Angle

|  |              |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                             | Screw Type   | 12D-03BMMB-SR700 1                                                                | 12D-04BMMB-SR700 1                                                                 | 12D-05BMMB-SR700 1                                                                  |

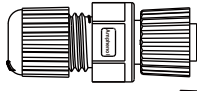
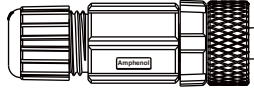
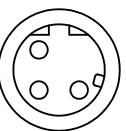
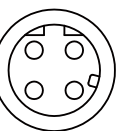
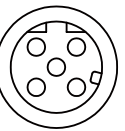
### └ M12 D (Metal) > Field Installable > Male Connector > Straight

|  Solder Type<br> Screw Type |              |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                                                                                                                                          | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                                                                                                                                         | Solder Type  | 12D-03BMMA-SL800 1                                                                | 12D-04BMMA-SL800 1                                                                 | 12D-05BMMA-SL800 1                                                                  |
|                                                                                                                                                                                               | Screw Type   | 12D-03BMMB-SL700 1                                                                | 12D-04BMMB-SL700 1                                                                 | 12D-05BMMB-SL700 1                                                                  |

### └ M12 D (Metal) > Field Installable > Female Connector > Right Angle

|  |              |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                               | Screw Type   | 12D-03BFFB-SR700 1                                                                  | 12D-04BFFB-SR700 1                                                                   | 12D-05BFFB-SR700 1                                                                    |

### └ M12 D (Metal) > Field Installable > Female Connector > Straight

|  Solder Type<br> Screw Type |              |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                                                                                                                                              | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                                                                                                                                             | Solder Type  | 12D-03BFFA-SL800 1                                                                  | 12D-04BFFA-SL800 1                                                                   | 12D-05BFFA-SL800 1                                                                    |
|                                                                                                                                                                                                   | Screw Type   | 12D-03BFFB-SL700 1                                                                  | 12D-04BFFB-SL700 1                                                                   | 12D-05BFFB-SL700 1                                                                    |

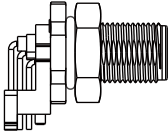
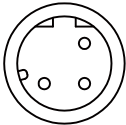
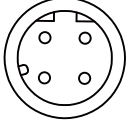
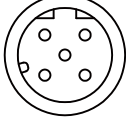
**M12 D Code (Plastic)**

Receptacle > Male / Female Connector  
Overmolded with cable > Male Connector

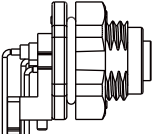
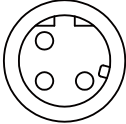
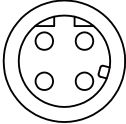
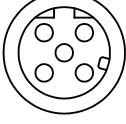
**IP 67 . 68** **9**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

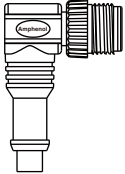
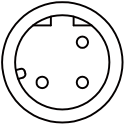
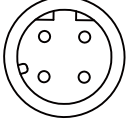
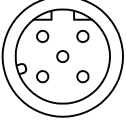
➤ **M12 D (Plastic) > Receptacle > Male Connector > Front Fastened**

|                                                                                   |                 |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                 |  |  |  |
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (90°)                                                                     | M12             | -                                                                                 | SDP-04PMMR-SF8001                                                                  | -                                                                                   |

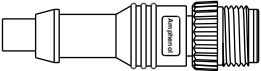
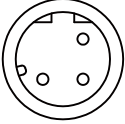
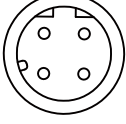
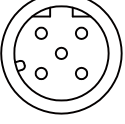
➤ **M12 D (Plastic) > Receptacle > Female Connector > Front Fastened**

|                                                                                   |                 |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                 |  |  |  |
| Backshell: Hexagonal                                                              |                 |                                                                                   |                                                                                    |                                                                                     |
| Type                                                                              | Mounting Thread | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| PCB Pin (90°)                                                                     | M12             | -                                                                                 | SDP-04PFFR-SF8001                                                                  | -                                                                                   |

➤ **M12 D (Plastic) > Overmolded with cable > Male Connector > Right Angle**

|                                                                                    |                |                                                                                     |                                                                                     |                                                                                      |
|------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |                |  |  |  |
| Type                                                                               |                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| Without Strain Relief                                                              | SDP-03BMMM-SR8 | SDP-04BMMM-SR8                                                                      | SDP-05BMMM-SR8                                                                      |                                                                                      |

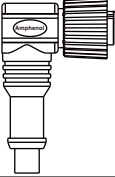
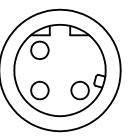
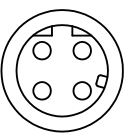
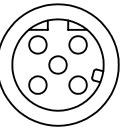
➤ **M12 D (Plastic) > Overmolded with cable > Male Connector > Straight**

|                                                                                    |                |                                                                                     |                                                                                     |                                                                                      |
|------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |                |  |  |  |
| Type                                                                               |                | 3 Contacts                                                                          | 4 Contacts                                                                          | 5 Contacts                                                                           |
| Without Strain Relief                                                              | SDP-03BMMM-SL8 | SDP-04BMMM-SL8                                                                      | SDP-05BMMM-SL8                                                                      |                                                                                      |

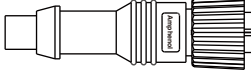
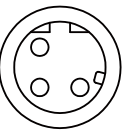
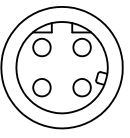
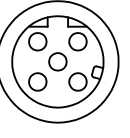
|            |     |     |     |     |
|------------|-----|-----|-----|-----|
| Cable Type | 1M  | 2M  | 5M  | 10M |
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |



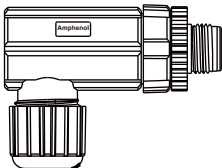
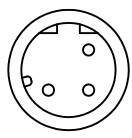
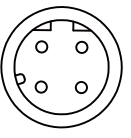
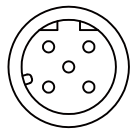
### M12 D (Plastic) > Overmolded with cable > Female Connector > Right Angle

|  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Type                                                                              | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                             | SDP-03BFFM-SR8                                                                    | SDP-04BFFM-SR8                                                                    | SDP-05BFFM-SR8                                                                     |

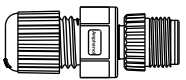
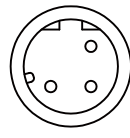
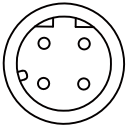
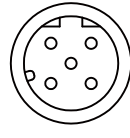
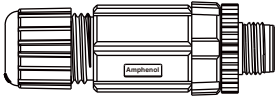
### M12 D (Plastic) > Overmolded with cable > Female Connector > Straight

|  |  |  |  |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Type                                                                             | 3 Contacts                                                                        | 4 Contacts                                                                        | 5 Contacts                                                                         |
| Without Strain Relief                                                            | SDP-03BFFM-SL8                                                                    | SDP-04BFFM-SL8                                                                    | SDP-05BFFM-SL8                                                                     |

### M12 D (Plastic) > Field Installable > Male Connector > Right Angle

|  |              |  |  |  |
|------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Type                                                                               | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                              | Screw Type   | SDP-03BMMB-SR700 1                                                                  | SDP-04BMMB-SR700 1                                                                   | SDP-05BMMB-SR700 1                                                                    |

### M12 D (Plastic) > Field Installable > Male Connector > Straight

|  | Solder Type  |  |  |  |
|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | Screw Type   |                                                                                     |                                                                                      |                                                                                       |
| Type                                                                                | Contact Type | 3 Contacts                                                                          | 4 Contacts                                                                           | 5 Contacts                                                                            |
| Without Strain Relief                                                               | Solder Type  | SDP-03BMMA-SL800 1                                                                  | SDP-04BMMA-SL800 1                                                                   | SDP-05BMMA-SL800 1                                                                    |
|                                                                                     | Screw Type   | SDP-03BMMB-SL700 1                                                                  | SDP-04BMMB-SL700 1                                                                   | SDP-05BMMB-SL700 1                                                                    |

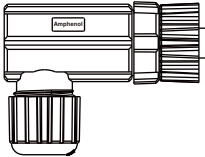
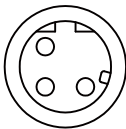
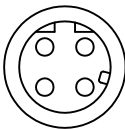
M12 D Code (Plastic)

Field Installable > Female Connector

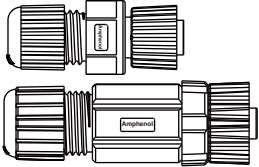
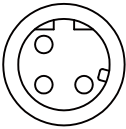
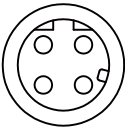
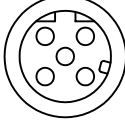
IP 67 . 68 9

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

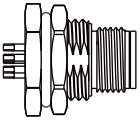
└ M12 D (Plastic) > Field Installable > Female Connector > Right Angle

|  |              |  |  |  |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                              | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                             | Screw Type   | SDP-03BFFB-SR700 1                                                                | SDP-04BFFB-SR700 1                                                                 | SDP-05BFFB-SR700 1                                                                  |

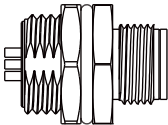
└ M12 D (Plastic) > Field Installable > Female Connector > Straight

|  <div>Solder Type</div> <div>Screw Type</div> |              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Type                                                                                                                           | Contact Type | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| Without Strain Relief                                                                                                          | Solder Type  | SDP-03BFFA-SL800 1                                                                | SDP-04BFFA-SL800 1                                                                 | SDP-05BFFA-SL800 1                                                                  |
|                                                                                                                                | Screw Type   | SDP-03BFFB-SL700 1                                                                | SDP-04BFFB-SL700 1                                                                 | SDP-05BFFB-SL700 1                                                                  |

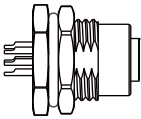
### 

|  |                 |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------|--|-----------------------------------------------------------------------------------|--|--|
| Backshell: Hexagonal                                                              |                 |  |                                                                                   |  |  |
| Type                                                                              | Mounting Thread |  | 5 Contacts                                                                        |  |  |
| PCB Pin (180°)                                                                    | PG9             |  | 12-05PMIP-SF800 1                                                                 |  |  |
|                                                                                   | M16.0           |  | 12-05PMIP-SF8003<br>12-05PMIP-SF8004                                              |  |  |
| PCB Pin (90°)                                                                     | PG9             |  | 12-05PMIR-SF800 1                                                                 |  |  |
|                                                                                   | M16.0           |  | 12-05PMIR-SF8003                                                                  |  |  |
| Solder Pin (180°)                                                                 | PG9             |  | 12-05PMIS-SF800 1                                                                 |  |  |
|                                                                                   | M16.0           |  | 12-05PMIS-SF8003<br>12-05PMIS-SF8004                                              |  |  |

### 

|  |                 |  |  |  |  |
|------------------------------------------------------------------------------------|-----------------|--|------------------------------------------------------------------------------------|--|--|
| Type                                                                               | Mounting Thread |  | 5 Contacts                                                                         |  |  |
| Solder Pin (180°)                                                                  | PG9             |  | 12-05PMIS-SH800 1                                                                  |  |  |
|                                                                                    | M16.0           |  | 12-05PMIS-SH8003<br>12-05PMIS-SH8004                                               |  |  |

### 

|  |                 |  |  |  |  |
|-------------------------------------------------------------------------------------|-----------------|--|-------------------------------------------------------------------------------------|--|--|
| Backshell: Hexagonal                                                                |                 |  |                                                                                     |  |  |
| Type                                                                                | Mounting Thread |  | 5 Contacts                                                                          |  |  |
| PCB Pin (180°)                                                                      | PG9             |  | 12-05PFIP-SF800 1                                                                   |  |  |
|                                                                                     | M16.0           |  | 12-05PFIP-SF8003<br>12-05PFIP-SF8004                                                |  |  |
| PCB Pin (90°)                                                                       | PG9             |  | 12-05PFIR-SF800 1                                                                   |  |  |
|                                                                                     | M16.0           |  | 12-05PFIR-SF8003                                                                    |  |  |
| Solder Pin (180°)                                                                   | PG9             |  | 12-05PFIS-SF800 1                                                                   |  |  |
|                                                                                     | M16.0           |  | 12-05PFIS-SF8003<br>12-05PFIS-SF8004                                                |  |  |

\* Design and specification are subject to change without notice.

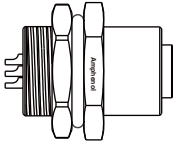
**M12 I Style (Metal)**

Receptacle > Female / Male Connector (Housing)  
Overmolded with cable > Male Connector (Housing)

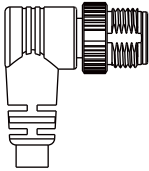
**IP 67 . 68** **9**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

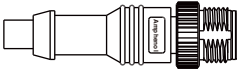
➤ **M12 I (Metal) > Receptacle > Female Connector (Housing) > Rear Fastened (Male+Female Contact)**

|                                                                                   |                 |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|
|  |                 |  |
| Type                                                                              | Mounting Thread | 5 Contacts                                                                        |
| Solder Pin (180°)                                                                 | PG9             | 12-05PFIS-SH8001                                                                  |
|                                                                                   | M16.0           | 12-05PFIS-SH8003<br>12-05PFIS-SH8004                                              |

➤ **M12 I (Metal) > Overmolded with cable > Male Connector (Housing) > Right Angle (Male+Female Contact)**

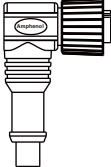
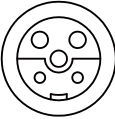
|                                                                                   |               |                                                                                   |
|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|
|  |               |  |
| Type                                                                              | 5 Contacts    |                                                                                   |
| With Strain Relief                                                                | 12-05AMIM-SR7 |                                                                                   |
| Without Strain Relief                                                             | 12-05BMIM-SR8 |                                                                                   |

➤ **M12 I (Metal) > Overmolded with cable > Male Connector (Housing) > Straight (Male+Female Contact)**

|                                                                                     |               |                                                                                     |
|-------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|
|  |               |  |
| Type                                                                                | 5 Contacts    |                                                                                     |
| With Strain Relief                                                                  | 12-05AMIM-SL7 |                                                                                     |
| Without Strain Relief                                                               | 12-05BMIM-SL8 |                                                                                     |

|            |     |     |     |     |
|------------|-----|-----|-----|-----|
| Cable Type | 1M  | 2M  | 5M  | 10M |
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

### **M12 I (Metal) > Overmolded with cable > Female Connector (Housing) > Right Angle (Male+Female Contact)**

|                                                                                                                                                                     |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|   |               |
| Type                                                                                                                                                                | 5 Contacts    |
| With Strain Relief                                                                                                                                                  | 12-05AFIM-SR7 |
| Without Strain Relief                                                                                                                                               | 12-05BFIM-SR8 |

### **M12 I (Metal) > Overmolded with cable > Female Connector (Housing) > Straight**

|                                                                                                                                                                     |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|   |               |
| Type                                                                                                                                                                | 5 Contacts    |
| With Strain Relief                                                                                                                                                  | 12-05AFIM-SL7 |
| Without Strain Relief                                                                                                                                               | 12-05BFIM-SL8 |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

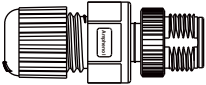
M12 I Style (Metal)

Field Installable > Female / Male Connector (Housing)

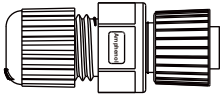
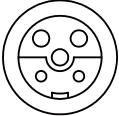
IP 67 . 68 9

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

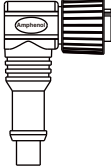
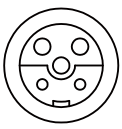
➤ M12 I (Metal) > Field Installable>Male Connector (Housing) > Straight (Male+Female Contact)

|                                                                                   |              |                                                                                   |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|
|  |              |  |
| Type                                                                              | Contact Type | 5 Contacts                                                                        |
| Without Strain Relief                                                             | Solder Type  | 12P-05BMIA-SL8001                                                                 |

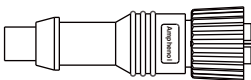
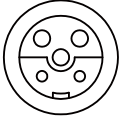
➤ M12 I (Plastic) > Field Installable > Female Connector (Housing) > Straight (Male+Female Contact)

|                                                                                   |              |                                                                                   |
|-----------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------|
|  |              |  |
| Type                                                                              | Contact Type | 5 Contacts                                                                        |
| Without Strain Relief                                                             | Solder Type  | 12P-05BFIA-SL8001                                                                 |

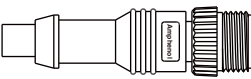
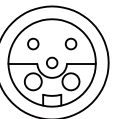
### **M12 I (Plastic) > Overmolded with cable > Female Connector (Housing) > Right Angle (Male+Female Contact)**

|                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |
| Type                                                                              | 5 Contacts                                                                        |
| Without Strain Relief                                                             | 12P-05BFIM-SR8                                                                    |

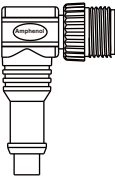
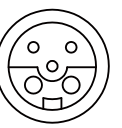
### **M12 I (Plastic) > Overmolded with cable > Female Connector (Housing) > Straight (Male+Female Contact)**

|                                                                                  |                                                                                   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |
| Type                                                                             | 5 Contacts                                                                        |
| Without Strain Relief                                                            | 12P-05BFIM-SL8                                                                    |

### **M12 I (Plastic) > Overmolded with cable > Male Connector (Housing) > Straight (Male+Female Contact)**

|                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| Type                                                                               | 5 Contacts                                                                          |
| Without Strain Relief                                                              | 12P-05BMIM-SL8                                                                      |

### **M12 I (Plastic) > Overmolded with cable > Male Connector (Housing) > Right Angle (Male+Female Contact)**

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| Type                                                                                | 5 Contacts                                                                          |
| Without Strain Relief                                                               | 12P-05BMIM-SR8                                                                      |

| Cable Type | 1M  | 2M  | 5M  | 10M |
|------------|-----|-----|-----|-----|
| PVC        | A01 | A02 | A05 | A10 |
| PU         | B01 | B02 | B05 | B10 |

\* Design and specification are subject to change without notice.

**M23 Style (Metal)**

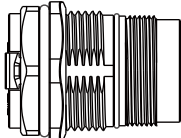
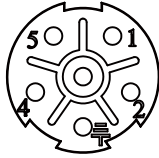
Receptacle (Field Installable Type) > Male Connector (Housing)

Field Installable > Female Connector (Housing)

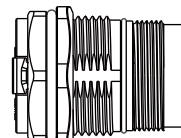
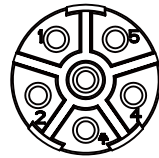
**IP 67 . 68** **9**

Receptacle | Unmated  
Overmolded with Cable | Mated  
Field Installable | Mated

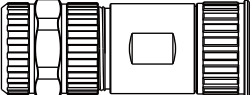
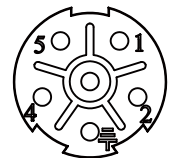
➤ **M23 (Metal) > Receptacle (Field Installable Type) > Male Connector (Housing)**  
**> Front Fastened**

|                                                                                   |                |                                                                                   |
|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
|  |                |  |
| Backshell: Hexagonal                                                              |                |                                                                                   |
| Type                                                                              | Contact Gender | 6 Contacts                                                                        |
| Crimp Pin                                                                         | Male           | LJ23-06PMMC-SF7001                                                                |

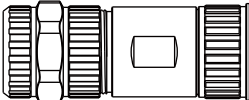
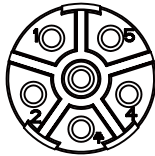
➤ **M23 (Metal) > Receptacle (Field Installable Type) > Male Connector (Housing)**  
**> Front Fastened**

|                                                                                   |                |                                                                                   |
|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
|  |                |  |
| Backshell: Hexagonal                                                              |                |                                                                                   |
| Type                                                                              | Contact Gender | 6 Contacts                                                                        |
| Crimp Pin                                                                         | Female         | LJ23-06PMFC-SF7001                                                                |

➤ **M23 (Metal) > Field Installable > Female Connector (Housing) > Straight**

|                                                                                     |              |                |                                                                                     |
|-------------------------------------------------------------------------------------|--------------|----------------|-------------------------------------------------------------------------------------|
|  |              |                |  |
| Type                                                                                | Contact Type | Contact Gender | 6 Contacts                                                                          |
| Without Strain Relief                                                               | Crimp Pin    | Male           | LJ23-06DFMC-SL7001                                                                  |

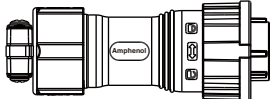
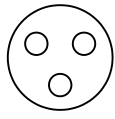
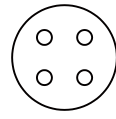
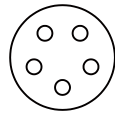
➤ **M23 (Metal) > Field Installable > Female Connector (Housing) > Straight**

|                                                                                     |              |                |                                                                                     |
|-------------------------------------------------------------------------------------|--------------|----------------|-------------------------------------------------------------------------------------|
|  |              |                |  |
| Type                                                                                | Contact Type | Contact Gender | 6 Contacts                                                                          |
| Without Strain Relief                                                               | Crimp Pin    | Female         | LJ23-06DFFC-SL7001<br>LJ23-06DFFC-SL7002                                            |

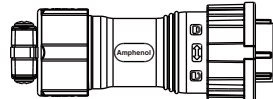
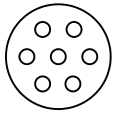
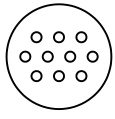
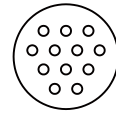
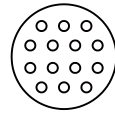




## ➤ Heavy Duty Shielded Connector (Metal) > Field Installable > Female Connector (Housing) > Straight

|                                                                                   |                    |      |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|--------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                    |      |  |  |  |  |
| Without Strain Relief                                                             |                    |      | 2 Contacts                                                                        | 3 Contacts                                                                        | 4 Contacts                                                                         | 5 Contacts                                                                          |
| 10A                                                                               | Solder Type / Male | 48H  | -                                                                                 | -                                                                                 | LB20-04BFMA-SL8001                                                                 | LB20-05BFMA-SL8001                                                                  |
|                                                                                   |                    | 500H | -                                                                                 | -                                                                                 | HB20-04BFMA-SL8001                                                                 | HB20-05BFMA-SL8001                                                                  |
| 20A                                                                               | Solder Type / Male | 48H  | LC20-02BFMA-SL8001                                                                | LC20-03BFMA-SL8001                                                                | -                                                                                  | -                                                                                   |
|                                                                                   |                    | 500H | HC20-02BFMA-SL8001                                                                | HC20-03BFMA-SL8001                                                                | -                                                                                  | -                                                                                   |

|                                                                                   |                    |      |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|--------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                    |      |  |  |  |  |
| Without Strain Relief                                                             |                    |      | 7 Contacts                                                                        | 10 Contacts                                                                       | 12 Contacts                                                                        | 14 Contacts                                                                         |
| 5A                                                                                | Solder Type / Male | 48H  | -                                                                                 | LD20-10BFMA-SL8001                                                                | LD20-12BFMA-SL8001                                                                 | LD20-14BFMA-SL8001                                                                  |
|                                                                                   |                    | 500H | -                                                                                 | HD20-10BFMA-SL8001                                                                | HD20-12BFMA-SL8001                                                                 | HD20-14BFMA-SL8001                                                                  |
| 10A                                                                               | Solder Type / Male | 48H  | LB20-07BFMA-SL8001                                                                | -                                                                                 | -                                                                                  | -                                                                                   |
|                                                                                   |                    | 500H | HB20-07BFMA-SL8001                                                                | -                                                                                 | -                                                                                  | -                                                                                   |

Blank lined paper for writing.



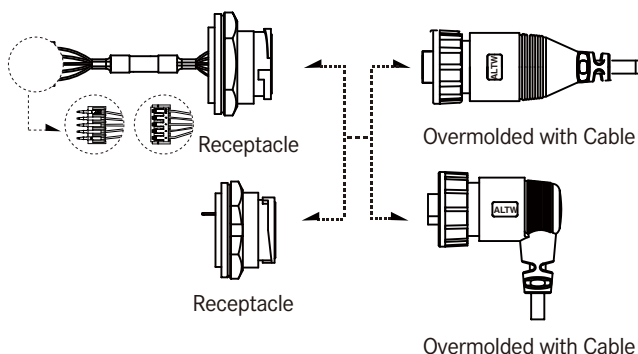
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## USB Connector

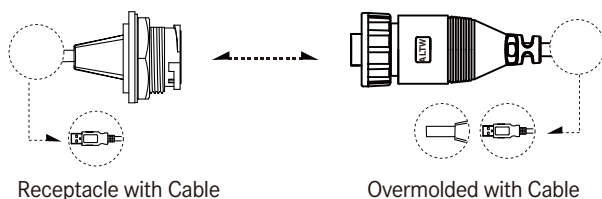


## Range Overview

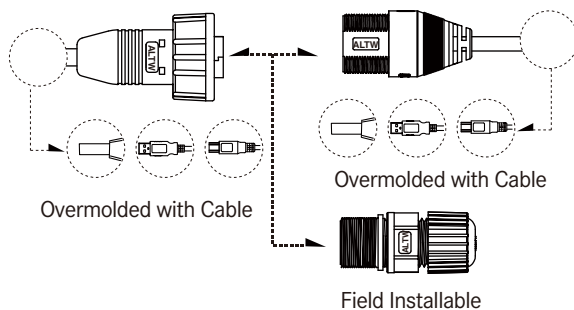
### Receptacle to Overmolded with Cable



### Receptacle with Cable to Overmolded with Cable



### In Line



### Micro USB



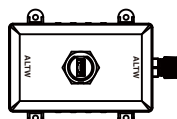
### Accessories



Waterproof Cap  
See page 21-16



Waterproof Cap  
See page 21-16



Box  
See page 21-21

# Specification

|                              |                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | USB 3.0 A Type<br>USB 2.0 A Type,<br>USB 2.0 B Type<br>Mini USB 2.0 B Type<br>Micro USB: Available soon                                                                                                             |
| <b>Description</b>           | Receptacle<br>Receptacle With Cable<br>Overmolded with Cable<br>Field Installable                                                                                                                                   |
| <b>Current Rating / Data</b> | 1.5A                                                                                                                                                                                                                |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : PBT UL94V-0                                                                                                                                       |
| <b>Waterproof Rating</b>     | IP67~68                                                                                                                                                                                                             |
| <b>Temperature Range</b>     | Receptacle: Nylon+GF: -40°C~105°C<br>M-PPE: -40°C~105°C<br>ABS: -20°C~80°C<br>Receptacle with cable: Nylon+GF: -20°C~105°C<br>ABS: -20°C~80°C<br>Overmolded with Cable: -20°C~80°C<br>Field Installable: -20°C~80°C |
| <b>Contact Resistance</b>    | ≤ 30mΩ                                                                                                                                                                                                              |
| <b>Insulation Resistance</b> | ≥ 1000mΩ at DC500V                                                                                                                                                                                                  |
| <b>Breakdown Voltage</b>     | ≥ AC500V / 1 minute                                                                                                                                                                                                 |
| <b>More to know</b>          | USB 2.0: Standard Cable Length: 01-05M<br>USB 3.0: Standard Cable Length: 01-03M<br>Mini USB: Standard Cable Length: 01-04M                                                                                         |

\* Design and specification are subject to change without notice.

# Ordering Information

| Specification                              |                                            | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------------------------------|--------------------------------------------|---|---|---|---|---|---|---|---|---|----|
| (UA) USB A Type                            | (NUB) Mini USB B                           |   |   |   |   |   |   |   |   |   |    |
| (UB) USB B Type                            |                                            |   |   |   |   |   |   |   |   |   |    |
| Data Transfer Rate                         |                                            |   |   |   |   |   |   |   |   |   |    |
| (20) 2.0                                   | (30) 3.0                                   |   |   |   |   |   |   |   |   |   |    |
| Connector Body (Style)                     |                                            |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                           | > For Overmolded with Cable                |   |   |   |   |   |   |   |   |   |    |
| (P) Front Fastened                         | (A) With Strain Relief                     |   |   |   |   |   |   |   |   |   |    |
| > For Field installable                    | (B) Without Strain Relief                  |   |   |   |   |   |   |   |   |   |    |
| (B) Without Strain Relief                  |                                            |   |   |   |   |   |   |   |   |   |    |
| Connector (Housing) Gender                 |                                            |   |   |   |   |   |   |   |   |   |    |
| (M) Male                                   | (F) Female                                 |   |   |   |   |   |   |   |   |   |    |
| Contact Gender                             |                                            |   |   |   |   |   |   |   |   |   |    |
| (M) Male (Plug)                            | (F) Female (Jack)                          |   |   |   |   |   |   |   |   |   |    |
| Assemble Style                             |                                            |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                           | > For Overmolded with Cable                |   |   |   |   |   |   |   |   |   |    |
| (P) 180° PCB Type                          | (M) Overmolded with Cable                  |   |   |   |   |   |   |   |   |   |    |
| (R) 90° PCB Type                           | > For Field Installable                    |   |   |   |   |   |   |   |   |   |    |
| (J) Jack                                   | (A) Field installable (Solder)             |   |   |   |   |   |   |   |   |   |    |
| Mating Style                               |                                            |   |   |   |   |   |   |   |   |   |    |
| (S) Screw Thread                           | (L) 2 Points Lock Bayonet (Nut OD: 28.5mm) |   |   |   |   |   |   |   |   |   |    |
| (N) 2 Points Lock Bayonet (Nut OD: 25.4mm) |                                            |   |   |   |   |   |   |   |   |   |    |
| Backshell                                  |                                            |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                           | > For Overmolded with Cable                |   |   |   |   |   |   |   |   |   |    |
| (C) Circular                               | (L) Straight                               |   |   |   |   |   |   |   |   |   |    |
| (S) Square                                 | (R) Right Angle                            |   |   |   |   |   |   |   |   |   |    |
| Waterproof Rating                          |                                            |   |   |   |   |   |   |   |   |   |    |
| (7) IP 67                                  |                                            |   |   |   |   |   |   |   |   |   |    |
| (8) IP 68                                  |                                            |   |   |   |   |   |   |   |   |   |    |
| More Information                           |                                            |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                           | > For Overmolded with Cable                |   |   |   |   |   |   |   |   |   |    |
| (001) Without Cable                        | (□)+(■) : Cable Type + Cable Length        |   |   |   |   |   |   |   |   |   |    |
| (002) With Cable (Harness<br>(50mm))       | EX. (A01) = USB 2.0 Cable + 1M             |   |   |   |   |   |   |   |   |   |    |
|                                            | (□) : Cable Type                           |   |   |   |   |   |   |   |   |   |    |
|                                            | (A) USB 2.0 Cable                          |   |   |   |   |   |   |   |   |   |    |
|                                            | (B) USB 3.0 Cable                          |   |   |   |   |   |   |   |   |   |    |
|                                            | (■) : Cable Length                         |   |   |   |   |   |   |   |   |   |    |
|                                            | USB2.0 :From 1M to 5M                      |   |   |   |   |   |   |   |   |   |    |
|                                            | USB3.0 :From 1M to 3M                      |   |   |   |   |   |   |   |   |   |    |
|                                            | Mini USB2.0: From 1M to 4M                 |   |   |   |   |   |   |   |   |   |    |
|                                            | EX. (01) = 1M                              |   |   |   |   |   |   |   |   |   |    |

# Ordering Information I Double-ended

ALTW waterproof connector to ALTW waterproof connector

ALTW waterproof connector to Standard USB connector (None Waterproof)

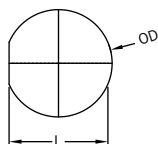
|                                       | 1 | 2 | 3                                          | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------------------------------|---|---|--------------------------------------------|---|---|---|---|---|---|
| <b>Specification</b>                  |   |   |                                            |   |   |   |   |   |   |
| (UA) USB A Type                       |   |   |                                            |   |   |   |   |   |   |
| (UB) USB B Type                       |   |   |                                            |   |   |   |   |   |   |
| <b>Data Transfer Rate</b>             |   |   |                                            |   |   |   |   |   |   |
| (20) 2.0                              |   |   | (30) 3.0                                   |   |   |   |   |   |   |
| <b>Connector Body (Style)</b>         |   |   |                                            |   |   |   |   |   |   |
| > For Receptacle                      |   |   | > For Overmolded with Cable                |   |   |   |   |   |   |
| (P) Front Fastened                    |   |   | (A) With Strain Relief                     |   |   |   |   |   |   |
|                                       |   |   | (B) Without Strain Relief                  |   |   |   |   |   |   |
| <b>Connector (Housing) Gender</b>     |   |   |                                            |   |   |   |   |   |   |
| (M) Male                              |   |   | (F) Female                                 |   |   |   |   |   |   |
| <b>Contact Gender</b>                 |   |   |                                            |   |   |   |   |   |   |
| (M) Male (Plug)                       |   |   | (F) Female (Jack)                          |   |   |   |   |   |   |
| <b>Mating Style</b>                   |   |   |                                            |   |   |   |   |   |   |
| (S) Screw Thread                      |   |   | (L) 2 Points Lock Bayonet (Nut OD: 28.5mm) |   |   |   |   |   |   |
| <b>Non-Waterproof (2ne End)</b>       |   |   |                                            |   |   |   |   |   |   |
| (A) USB2.0 A Type (Plug)              |   |   | (D) USB3.0 A Type (Plug)                   |   |   |   |   |   |   |
| (B) USB2.0 B Type (Plug)              |   |   |                                            |   |   |   |   |   |   |
| <b>Waterproof Rating</b>              |   |   |                                            |   |   |   |   |   |   |
| (6) IP 66                             |   |   |                                            |   |   |   |   |   |   |
| (7) IP 67                             |   |   |                                            |   |   |   |   |   |   |
| (8) IP 68                             |   |   |                                            |   |   |   |   |   |   |
| <b>More Information</b>               |   |   |                                            |   |   |   |   |   |   |
| <b>&gt; For Receptacle with Cable</b> |   |   | <b>&gt; For Overmolded with Cable</b>      |   |   |   |   |   |   |
| (□)+(■) : Cable Type + Cable Length   |   |   | (□)+(■) : Cable Type + Cable Length        |   |   |   |   |   |   |
| EX. (BX10) = USB 3.0 Cable + 100mm    |   |   | EX. (A01) = USB 2.0 Cable + 1M             |   |   |   |   |   |   |
| (□) : Cable Type                      |   |   | (□) : Cable Type                           |   |   |   |   |   |   |
| (B) USB 3.0 Cable                     |   |   | (A) USB 2.0 Cable                          |   |   |   |   |   |   |
| (■) : Cable Length                    |   |   | (■) : Cable Length                         |   |   |   |   |   |   |
| USB3.0 :From 100mm to 300mm           |   |   | USB2.0 :From 1M to 5M                      |   |   |   |   |   |   |
| EX. (10) = 100mm                      |   |   | USB3.0 :From 1M to 3M                      |   |   |   |   |   |   |
|                                       |   |   | Mini USB2.0: From 1M to 4M                 |   |   |   |   |   |   |
|                                       |   |   | EX. (01) = 1M                              |   |   |   |   |   |   |

\* Design and specification are subject to change without notice.

## Physical Dimension

### Receptacle

Panel Cut-Out



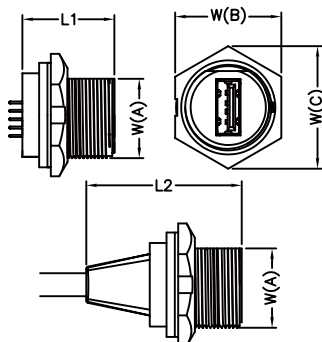
| Type     |        | Connector Gender (Housing) | L    | OD   |
|----------|--------|----------------------------|------|------|
|          |        |                            | Male |      |
| USB2.0   | Type A | Screw Thread               | 19.4 | 20.8 |
|          |        | 2 Points Lock Bayonet      | 23.6 | 25.6 |
|          | Type B | Screw Thread               | 19.4 | 20.8 |
|          |        | 2 Points Lock Bayonet      | 23.6 | 25.6 |
| USB3.0   | Type A | Screw Thread               | 19.4 | 20.8 |
|          |        | 2 Points Lock Bayonet      | 23.6 | 25.6 |
| Mini USB | -      | Screw Thread               | 14.8 | 15.6 |

\* Maximum Panel Thickness: USB: 4mm I Mini USB: 2.5mm Dimensions are shown in millimeters

\* USB: Screw I Middle Size (13/16"-28 UNS)  
2 Points Lock Bayonet I Large Size (1"20 UNEF)

\* Mini USB: Screw I Standard Size (5/8"-27 UNS)

Connector Dimension



Receptacle with Cable

| Type     |        | Connector Gender (Housing) | W(A) | W(B) | W(C) | L1   | L2   |
|----------|--------|----------------------------|------|------|------|------|------|
|          |        |                            | Male |      |      |      |      |
| USB2.0   | Type A | Screw Thread               | 19.0 | 25.4 | 29.3 | 22.0 | -    |
|          |        | 2 Points Lock Bayonet      | 23.2 | 28.5 | 32.9 | 20.3 | -    |
|          | Type B | Screw Thread               | 19.0 | 25.4 | 29.3 | 22.0 | -    |
|          |        | 2 Points Lock Bayonet      | 23.2 | 28.5 | 32.9 | 20.3 | -    |
| USB3.0   | Type A | Screw Thread               | 19.0 | 25.4 | 29.3 | -    | 37.2 |
|          |        | 2 Points Lock Bayonet      | 23.2 | 28.5 | 32.9 | -    | 37.5 |
| Mini USB | -      | Screw Thread               | 14.5 | 20.6 | 23.5 | 15.0 | -    |

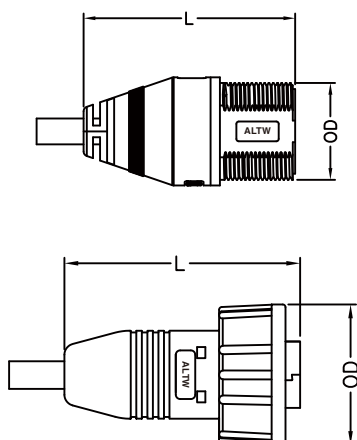
\* USB: Screw I Middle Size (13/16"-28 UNS)

Dimensions are shown in millimeters

2 Points Lock Bayonet I Large Size (1"20 UNEF)

\*Mini USB: Screw I Standard Size (5/8"-27 UNS)

### Overmolded with Cable



| Type     |        | Connector Gender (Housing) | L      |      | OD     |       |
|----------|--------|----------------------------|--------|------|--------|-------|
|          |        |                            | Female | Male | Female | Male  |
| USB2.0   | Type A | Screw Thread               | 42.6   | 45.0 | 25.4   | 20.6  |
|          |        | 2 Points Lock Bayonet      | 73.3   | -    | 28.5   | -     |
|          | Type B | Screw Thread               | 42.6   | 45.0 | 25.4   | 20.6  |
|          |        | 2 Points Lock Bayonet      | 73.3   | -    | 28.5   | -     |
| USB3.0   | Type A | Screw Thread               | 42.6   | 45.0 | 42.6   | 20.6  |
|          |        | 2 Points Lock Bayonet      | 75.0   | -    | 28.5   | -     |
| Mini USB | -      | Screw Thread               | 42.6   | 45.0 | 20.0   | 15.45 |

\* USB: Screw I Middle Size (13/16"-28 UNS)

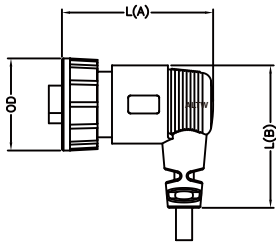
Dimensions are shown in millimeters

2 Points Lock Bayonet I Large Size (1"20 UNEF)

\*Mini USB: Screw I Standard Size (5/8"-27 UNS)



## Overmolded with Cable



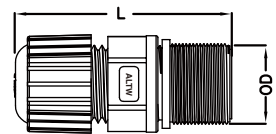
| Type   |        | Connector Gender (Housing) | L(A)   |      | L(B)   |      | OD     |      |
|--------|--------|----------------------------|--------|------|--------|------|--------|------|
|        |        |                            | Female | Male | Female | Male | Female | Male |
| USB2.0 | Type A | Screw Thread               | -      | -    | -      | -    | -      | -    |
|        |        | 2 Points Lock Bayonet      | 46.8   | -    | 44.1   | -    | 28.5   | -    |
|        | Type B | Screw Thread               | -      | -    | -      | -    | -      | -    |
|        |        | 2 Points Lock Bayonet      | 46.8   | -    | 44.1   | -    | 28.5   | -    |

\* USB: Screw I Middle Size (13/16"-28 UNS)

Dimensions are shown in millimeters

2 Points Lock Bayonet I Large Size (1"20 UNEF)

## Field Installable



| Type     |        | Connector Gender (Housing) | L      |      | OD     |       |
|----------|--------|----------------------------|--------|------|--------|-------|
|          |        |                            | Female | Male | Female | Male  |
| USB2.0   | Type A | Screw Thread               | -      | 56.0 | -      | 20.6  |
|          |        | 2 Points Lock Bayonet      | -      | -    | -      | -     |
|          | Type B | Screw Thread               | -      | 56.0 | -      | 20.6  |
|          |        | 2 Points Lock Bayonet      | -      | -    | -      | -     |
| Mini USB | -      | Screw Thread               | -      | 45.0 | -      | 15.45 |

\* USB: Screw I Middle Size (13/16"-28 UNS)

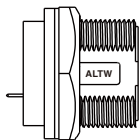
Dimensions are shown in millimeters

2 Points Lock Bayonet I Large Size (1"20 UNEF)

\*Mini USB: Screw I Standard Size (5/8"-27 UNS)

## Product Features

### Receptacle



#### Backshell 8



Circular (C)

#### Mating Style 7



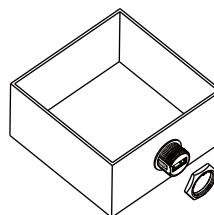
Screw Thread (S)



2 Points Lock Bayonet (L)  
(Nut OD: 28.5mm)

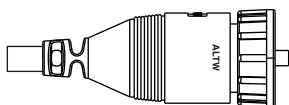
2 Points Lock Bayonet (N)  
(Nut OD: 25.4mm)

#### Connector Body (Style) 3



Front Fastened (P)

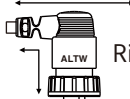
### Overmolded with Cable



#### Backshell 8



Straight (L)



Right Angle (R)

#### Mating Style 7



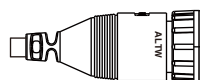
Screw Thread (S)



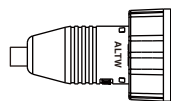
2 Points Lock Bayonet (L)  
(Nut OD: 28.5mm)

2 Points Lock Bayonet (N)  
(Nut OD: 25.4mm)

#### Connector Body (Style) 3

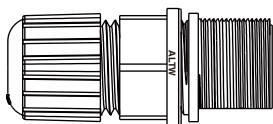


With Strain Relief (A)



Without Strain Relief (B)

### Field Installable



#### Backshell 8



Straight  
(L)

#### Mating Style 7



Screw Thread (S)

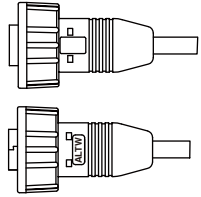
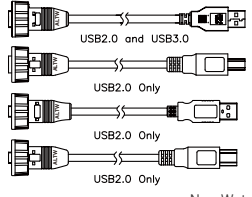
#### Connector Body (Style) 3



Without Strain Relief (B)

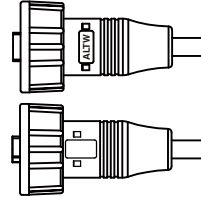
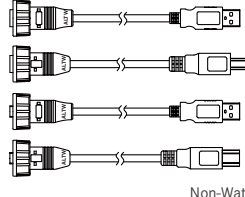
## Find Our Standard Products

### USB > In-line

|                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"><li>•Male Connector (Housing)</li><li>•Female Contacts</li><li>•Screw Thread</li><li>•Middle Size (13/16"-28 UNS)</li></ul> | <div><div>Overmolded with Cable-----&gt;</div><div>Overmolded with Cable-----&gt;</div><div>Overmolded with Cable (Double-Ended)</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                           |
|                                                                                                                                                               | <div><p>** USB 2.0: Choose the cable length from 01~05m<br/>** USB 3.0: Choose the cable length from 01~03m</p></div> <div><p>** USB 2.0: Choose the cable length from 01~05m<br/>** USB 3.0: Choose the cable length from 01~03m</p></div> <div><p>Non-Waterproof</p><p>** USB 2.0: Choose the cable length from 01~05m<br/>** USB 3.0: Choose the cable length from 01~03m</p></div> |                                           |                                           |
| Speed (Code)                                                                                                                                                  | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Female Connector (F)<br>Male Contacts (M) | Female Connector (F)<br>Male Contacts (M) |
| USB 2.0 Type A                                                                                                                                                | UA-20AMFM-SL7A**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UA-20BFMM-SL7A**                          | UA-20BFM-SA7A**<br>UA-20BFM-SB7A**        |
| USB 2.0 Type B                                                                                                                                                | UB-20AMFM-SL7A**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UB-20BFMM-SL7A**                          | UB-20BFM-SA7A**<br>UB-20BFM-SB7A**        |
| USB 3.0 Type A                                                                                                                                                | UA-30AMFM-SL7B**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UA-30BFMM-SL7B**                          | UA-30BFM-SD7B**                           |

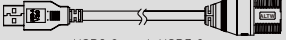
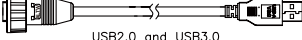
\* Refer to P4-4 for ordering information.

### USB > In-line

|                                                                                                                                                                   |                                                                                                                             |                                                                                                                                                                                            |                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Female Contacts</li><li>• Screw Thread</li><li>• Middle Size (13/16"-28 UNS)</li></ul> | <div>Field Installable</div> <div></div> | <div>Overmolded with Cable</div> <div></div> <div>** USB 2.0: Choose the cable length from 01~05m</div> | <div>Overmolded with Cable (Double-Ended)</div> <div></div> <div>Non-Waterproof</div> <div>** USB 2.0: Choose the cable length from 01~05m</div> |
| Speed (Code)                                                                                                                                                      | Male Connector (M)<br>Female Contacts (F)                                                                                   | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                  | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                                             |
| USB 2.0 Type A                                                                                                                                                    | UA-20BMFA-SL8001                                                                                                            | UA-20BFMM-SL7A**                                                                                                                                                                           | UA-20BFM-SA7A**<br>UA-20BFM-SB7A**                                                                                                                                                                                                    |
| USB 2.0 Type B                                                                                                                                                    | UB-20BMFA-SL8001                                                                                                            | UB-20BFMM-SL7A**                                                                                                                                                                           | UB-20BFM-SA7A**<br>UB-20BFM-SB7A**                                                                                                                                                                                                    |

\* Refer to P4-4 for ordering information.

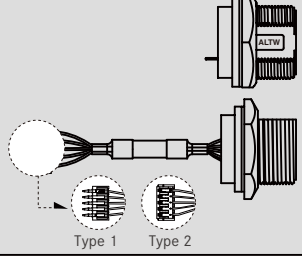
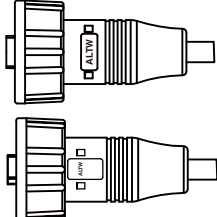
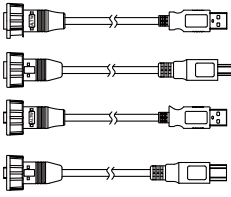
### USB > In-line

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> <li>• Middle Size (13/16"-28 UNS)</li> </ul> | Overmolded with Cable (Double-Ended)                                                                                                                                                                                  | Overmolded with Cable (Double-Ended)                                                                                                                                                                                  | Field Installable                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
|                                                                                                                                                                        |  <p>USB2.0 and USB3.0</p> <p>** USB 2.0: Choose the cable length from 01~05m<br/>** USB 3.0: Choose the cable length from 01~03m</p> |  <p>USB2.0 and USB3.0</p> <p>** USB 2.0: Choose the cable length from 01~05m<br/>** USB 3.0: Choose the cable length from 01~03m</p> |                                           |
| Speed (Code)                                                                                                                                                           | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                             | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                             | Female Connector (F)<br>Male Contacts (M) |
| USB 2.0 Type A                                                                                                                                                         | UA-20AMF-SA7A**                                                                                                                                                                                                       | UA-20BFM-SA7A**                                                                                                                                                                                                       | -                                         |
| USB 3.0 Type A                                                                                                                                                         | UA-30AMF-SD7B**                                                                                                                                                                                                       | UA-30BFM-SD7B**                                                                                                                                                                                                       | -                                         |

\* Refer to P4-4 for ordering information.

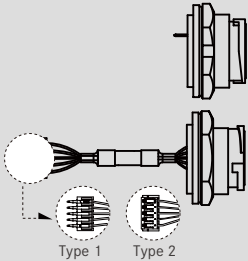
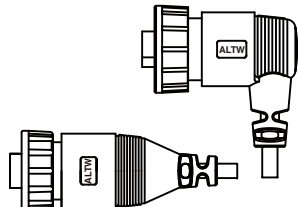
\* Refer to P4-4 for ordering information.

### USB > Receptacle and Mating Pair

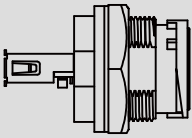
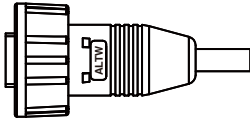
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> <li>• Middle Size (13/16"-28 UNS)</li> </ul> | Receptacle                                                                                               | Overmolded with Cable                                                                                                             | Overmolded with Cable (Double-Ended)                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                        |  <p>Type 1 Type 2</p> |  <p>** Choose the cable length from 01~05m</p> |  <p>Non-Waterproof</p> <p>** Choose the cable length from 01~05m</p> |
| Speed (Code)                                                                                                                                                           | Male Connector (M)<br>Female Contacts (F)                                                                | Female Connector (F)<br>Male Contacts (M)                                                                                         | Female Connector (F)<br>Male Contacts (M)                                                                                                                 |
| USB 2.0 Type A                                                                                                                                                         | UA-20PMFP-SC8001<br>UA-20PMFP-SC8002 Type1<br>UA-20PMFP-SC8003 Type2                                     | UA-20BFMM-SL7A**                                                                                                                  | UA-20BFM-SA7A**<br>UA-20BFM-SB7A**                                                                                                                        |
| USB 2.0 Type B                                                                                                                                                         | UB-20PMFP-SC8001<br>UB-20PMFP-SC8002<br>UB-20PMFP-SC8003                                                 | UB-20BFMM-SL7A**                                                                                                                  | UB-20BFM-SA7A**<br>UB-20BFM-SB7A**                                                                                                                        |

\* Refer to P4-4 for ordering information.

## USB > Receptacle and Mating Pair

|                                                                                                                                                                                             | Receptacle                                                                                                | Overmolded with Cable                                                                                                           | Field Installable                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet (Nut OD: 28.5mm)</li> <li>• Large Size (1"20 UNEF)</li> </ul> |  <p>Type 1    Type 2</p> |  <p>** Choose the cable length from 01~05m</p> |                                           |
| Speed (Code)                                                                                                                                                                                | Male Connector (M)<br>Female Contacts (F)                                                                 | Female Connector (F)<br>Male Contacts (M)                                                                                       | Female Connector (F)<br>Male Contacts (M) |
| USB 2.0 Type A                                                                                                                                                                              | UA-20PMFP-LC7001<br>UA-20PMFP-LC7002 Type1<br>UA-20PMFP-LC7003 Type2                                      | UA-20AFMM-LL7A**<br>UA-20AFMM-LR7A**                                                                                            | -                                         |
| USB 2.0 Type B                                                                                                                                                                              | UB-20PMFP-LC7001<br>UB-20PMFP-LC7002<br>UB-20PMFP-LC7003                                                  | UB-20AFMM-LL7A**<br>UB-20AFMM-LR7A**                                                                                            | -                                         |

## USB > Receptacle and Mating Pair

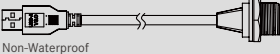
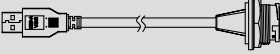
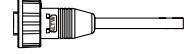
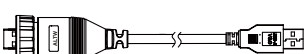
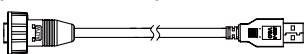
|                                                                                                                                                                                             | Receptacle                                                                          | Overmolded with Cable                                                                                                             | Field Installable                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• 2 Points Lock Bayonet (Nut OD: 25.4mm)</li> <li>• Large Size (1"20 UNEF)</li> </ul> |  |  <p>** Choose the cable length from 01~05m</p> |                                           |
| Speed (Code)                                                                                                                                                                                | Male Connector (M)<br>Female Contacts (F)                                           | Female Connector (F)<br>Male Contacts (M)                                                                                         | Female Connector (F)<br>Male Contacts (M) |
| USB 2.0 Type A                                                                                                                                                                              | UA-20PMFJ-NC7001                                                                    | UA-20BFMM-NL7A**                                                                                                                  | -                                         |

USB

Receptacle with Overmolded Cable and Mating Pair  
2 Points Lock Bayonet  
Large Size

IP 67 . 68 9  
Unmated or Mated

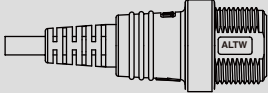
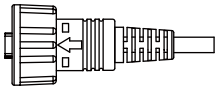
USB > Receptacle with Overmolded Cable and Mating Pair

|                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"><li>• Male Connector (Housing)</li><li>• Female Contacts</li><li>• Screw Thread</li><li>• 2 Points Lock Bayonet (Nut OD: 28.5mm)</li><li>• Large Size (1"20 UNEF)</li></ul> | <div>Receptacle with Cable (Double-Ended) -----&gt; Overmolded with Cable -----&gt; Overmolded with Cable (Double-Ended)</div> <div><p>Non-Waterproof</p></div> <div></div> <div></div> |                                           |                                           |
|                                                                                                                                                                                                               | <p>** USB 3.0: Choose the cable length from 100~300mm</p> <p>** USB 3.0: Choose the cable length from 01~03m</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                           |
| Speed (Code)                                                                                                                                                                                                  | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Female Connector (F)<br>Male Contacts (M) | Female Connector (F)<br>Male Contacts (M) |
| USB 3.0 Type A                                                                                                                                                                                                | UA-30PMF-LD7B**<br>UA-30PMF-SD7B**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UA-30AFMM-LL7BXX<br>UA-30BFMM-SL7BXX      | UA-30BFM-SD7B**<br>UA-30AFM-LD7A**        |

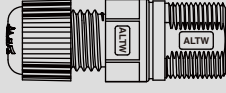
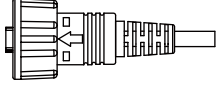
\* Refer to P4-4 for ordering information.

\* Refer to P4-4 for ordering information.

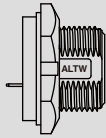
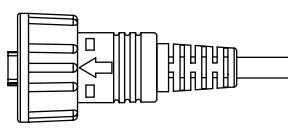
## Mini USB > In-line

|                                                                                                                                                                        |                                                                                   |                                                                                   |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> <li>• Standard Size (5/8"-27 UNS)</li> </ul> | <b>Overmolded with Cable</b> ----->                                               |                                                                                   | <b>Field Installable</b>                  |
|                                                                                                                                                                        |  |  |                                           |
|                                                                                                                                                                        | ** Choose the cable length from 01~04m                                            | ** Choose the cable length from 01~04m                                            |                                           |
| Speed (Code)                                                                                                                                                           | Male Connector (M)<br>Female Contacts (F)                                         | Female Connector (F)<br>Male Contacts (M)                                         | Female Connector (F)<br>Male Contacts (M) |
| Mini USB 2.0 Type B                                                                                                                                                    | NUB-20AMFM-SL7A**                                                                 | NUB-20AFMM-SL7A**                                                                 | -                                         |

## Mini USB > In-line

|                                                                                                                                                                        |                                                                                    |                                                                                    |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> <li>• Standard Size (5/8"-27 UNS)</li> </ul> | <b>Field Installable</b> ----->                                                    |                                                                                    | <b>Field Installable</b>                  |
|                                                                                                                                                                        |  |  |                                           |
|                                                                                                                                                                        | ** Choose the cable length from 01~04m                                             | ** Choose the cable length from 01~04m                                             |                                           |
| Speed (Code)                                                                                                                                                           | Male Connector (M)<br>Female Contacts (F)                                          | Female Connector (F)<br>Male Contacts (M)                                          | Female Connector (F)<br>Male Contacts (M) |
| Mini USB 2.0 Type B                                                                                                                                                    | NUB-20AMFM-SL7A**                                                                  | NUB-20AFMM-SL7A**                                                                  | -                                         |

## Mini USB > Receptacle and Mating Pair

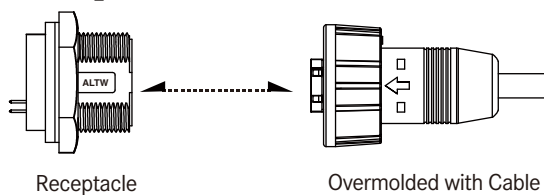
|                                                                                                                                                                        |                                                                                     |                                                                                     |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> <li>• Standard Size (5/8"-27 UNS)</li> </ul> | <b>Receptacle</b> ----->                                                            |                                                                                     | <b>Field Installable</b>                  |
|                                                                                                                                                                        |  |  |                                           |
|                                                                                                                                                                        |                                                                                     | ** Choose the cable length from 01~04m                                              |                                           |
| Speed (Code)                                                                                                                                                           | Male Connector (M)<br>Female Contacts (F)                                           | Female Connector (F)<br>Male Contacts (M)                                           | Female Connector (F)<br>Male Contacts (M) |
| Mini USB 2.0 Type B                                                                                                                                                    | NUB-20PMFP-SC7001<br>NUB-20PMFR-SC7001                                              | NUB-20AFMM-SL7A**                                                                   | -                                         |

# IEEE 1394 Connector

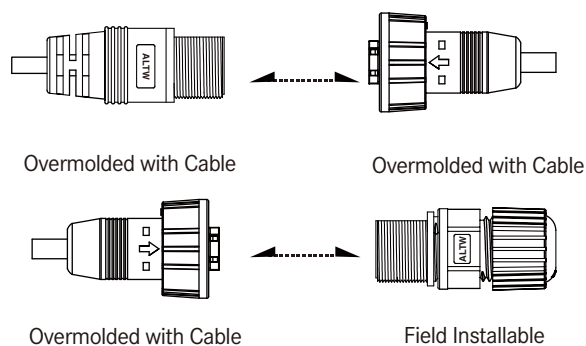


## Range Overview

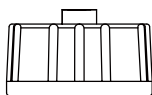
### Receptacle to Overmolded with Cable



### In Line



### Accessories



Waterproof Cap  
See page 21-16



# Specification

|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | IEEE 1394                                                                                          |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable                                           |
| <b>Current Rating / Data</b> | 1A                                                                                                 |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : PBT UL94V-0                      |
| <b>Waterproof Rating</b>     | IP67~68                                                                                            |
| <b>Temperature Range</b>     | Receptacle: -20 °C~80 °C<br>Overmolded with Cable: -20 °C~80 °C<br>Field Installable: -20 °C~80 °C |
| <b>Contact Resistance</b>    | $\leq 30\text{m}\Omega$ Max                                                                        |
| <b>Insulation Resistance</b> | $\geq 100\text{M}\Omega$ at DC500V                                                                 |
| <b>Durability</b>            | 500 cycles                                                                                         |
| <b>Breakdown Voltage</b>     | $\geq$ AC 500V / 1 minute                                                                          |
| <b>More to know</b>          | Standard Cable Length: 01~04M                                                                      |

# Ordering Information

1 — 2 3 4 5 6 — 7 8 9 10

**Specification**

(13) 1394 Connector

**Type**

(AA) 1394A

**Connector Body (Style)**
> For Receptacle
> For Overmolded with Cable

(P) Front Fastened

(A) With Strain Relief

> For Field installable

(B) Without Strain Relief

(B) Without Strain Relief

**Connector (Housing) Gender**

(M) Male Connector

(F) Female Connector

**Contact Gender**

(M) Male (Plug)

(F) Female (Jack)

**Assemble Style**
> For Receptacle
> For Overmolded with Cable

(P) 180° PCB Type

(M) Overmolded with Cable

> For Field Installable

(A) Field installable (Solder)

**Mating Style**

(S) Screw Thread

**Backshell**
> For Receptacle
> For Overmolded with Cable

(C) Circular

(L) Straight

> For Field Installable

(L) Straight

**Waterproof Rating**

(7) IP 67

(8) IP 68

**More Information**
> For Receptacle
> For Overmolded with Cable

(001) Without Cable

(□)+(■) : Cable Type + Cable Length

 (002) With Cable (Harness  
(50mm))

EX. (A01) = 1394A Cable + 1M

(□) : Cable Type

(A) 1394A Cable

(■) : Cable Length

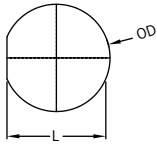
From 1M to 4M

EX. (01) = 1M

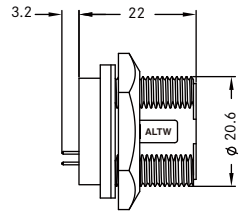
## Physical Dimension

### Receptacle

Panel Cut-Out



Connector Dimension

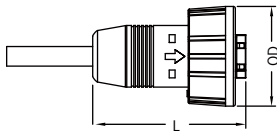


| Type \ Dimension | L    | OD   |
|------------------|------|------|
| Connector Gender | Male |      |
| IEEE 1394        | 19.4 | 20.8 |

\* Maximum Panel Thickness: 4mm

Dimensions are shown in millimeters

### Overmolded with Cable

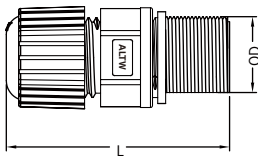


with Strain Relief / Straight

| Type \ Dimension | L      |      | OD     |      |
|------------------|--------|------|--------|------|
| Connector Gender | Female | Male | Female | Male |
| IEEE 1394        | 42.6   | 55.0 | 25.4   | 20.6 |

Dimensions are shown in millimeters

### Field Installable

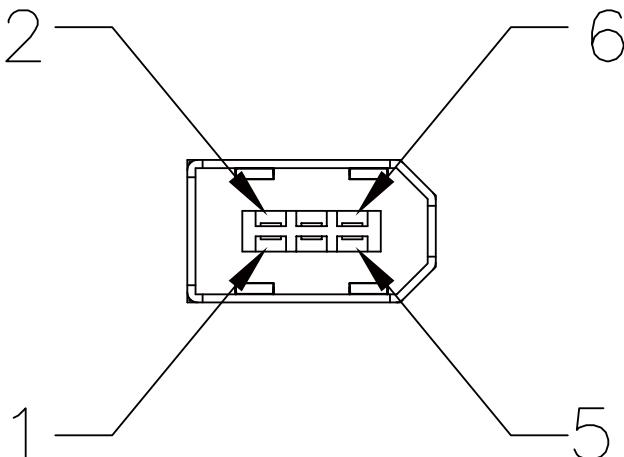


without Strain Relief / Straight

| Type \ Dimension | L      |      | OD     |      |
|------------------|--------|------|--------|------|
| Connector Gender | Female | Male | Female | Male |
| IEEE 1394        | -      | 56.0 | -      | 20.6 |

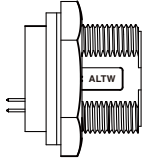
Dimensions are shown in millimeters

## Contact Configuration



## Product Features

### Receptacle



\* PCB Pin 180°

#### Backshell 8



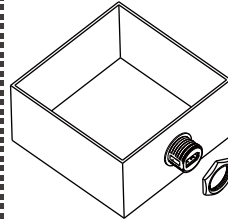
Circular (C)

#### Mating Style 7



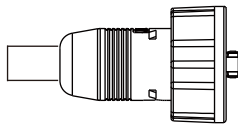
Screw Thread (S)

#### Connector Body(Style) 3

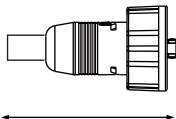


Front Fastened (P)

### Overmolded with Cable



#### Backshell 8



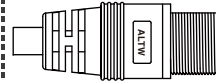
Straight  
(L)

#### Mating Style 7

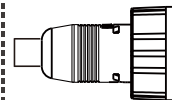


Screw Thread (S)

#### Connector Body(Style) 3

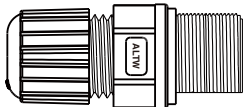


With Strain Relief (A)

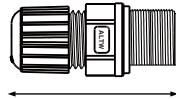


Without Strain Relief (B)

### Field Installable



#### Backshell 8



Straight  
(L)

#### Mating Style 7



Screw Thread (S)

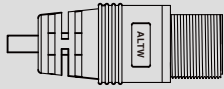
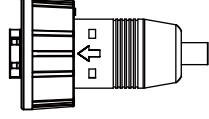
#### Connector Body(Style) 3



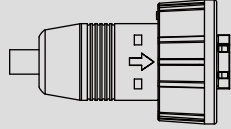
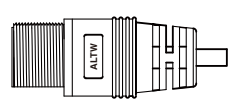
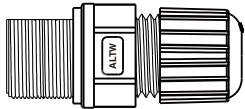
Without Strain Relief (B)

## Find Our Standard Products

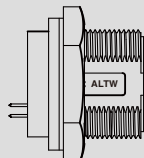
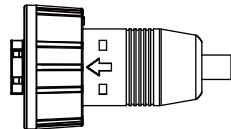
### └ In-line

|                                                                                                                                 |                                                                                                                                 |                                                                                                                                 |                                           |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> </ul> | Overmolded with Cable                                                                                                           | Overmolded with Cable                                                                                                           | Field Installable                         |
|                                                                                                                                 |  <p>** Choose the cable length from 01~04m</p> |  <p>** Choose the cable length from 01~04m</p> |                                           |
| Code                                                                                                                            | Male Connector (M)<br>Female Contacts (F)                                                                                       | Female Connector (F)<br>Male Contacts (M)                                                                                       | Female Connector (F)<br>Male Contacts (M) |
| IEEE 1394 A Type (13)                                                                                                           | 13-AAAMFM-SL7A**                                                                                                                | 13-AABFMM-SL7A**                                                                                                                | -                                         |

### └ In-line

|                                                                                                                                 |                                                                                                                                  |                                                                                                                                 |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread</li> </ul> | Overmolded with Cable                                                                                                            | Overmolded with Cable                                                                                                           | Field Installable                                                                   |
|                                                                                                                                 |  <p>** Choose the cable length from 01~04m</p> |  <p>** Choose the cable length from 01~04m</p> |  |
| Code                                                                                                                            | Female Connector (F)<br>Male Contacts (M)                                                                                        | Male Connector (M)<br>Female Contacts (F)                                                                                       | Male Connector (M)<br>Female Contacts (F)                                           |
| IEEE 1394 A Type (13)                                                                                                           | 13-AABFMM-SL7A**                                                                                                                 | 13-AAAMFM-SL7A**                                                                                                                | 13-AABMFA-SL8001                                                                    |

### └ Receptacle and Mating Pair

|                                                                                                                                 |                                                                                     |                                                                                                                                   |                                           |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> </ul> | Receptacle                                                                          | Overmolded with Cable                                                                                                             | Field Installable                         |
|                                                                                                                                 |  |  <p>** Choose the cable length from 01~04m</p> |                                           |
| Code                                                                                                                            | Male Connector (M)<br>Female Contacts (F)                                           | Female Connector (F)<br>Male Contacts (M)                                                                                         | Female Connector (F)<br>Male Contacts (M) |
| IEEE 1394 A Type (13)                                                                                                           | 13-AAPMFP-SC8001                                                                    | 13-AABFMM-SL7A**                                                                                                                  | -                                         |

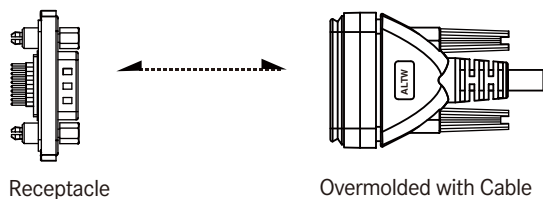
\* Design and specification are subject to change without notice.

## D-Sub Connector

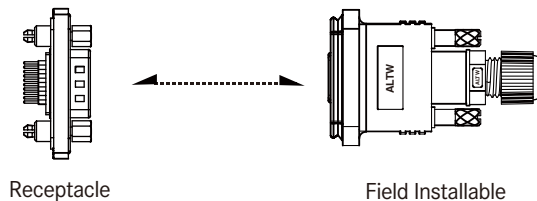


## Range Overview

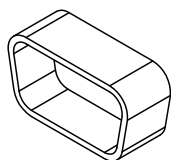
### Receptacle to Overmolded with Cable



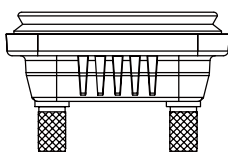
### Receptacle to Field Installable



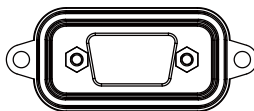
### Accessories



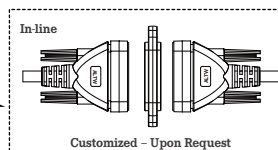
Dust Cap  
See page 21-10



Waterproof Cap  
See page 21-16



Joint  
See page 21-23



# Specification

|                              |                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | Standard D-Sub Connector<br>High Density D-Sub Connector                                                                           |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable                                                                           |
| <b>Current Rating / Data</b> | Standard D-Sub : 5A<br>High Density D-Sub : 2A                                                                                     |
| <b>Material</b>              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing) : Nylon 9T or PBT, UL<br>Recognized<br>Shell: Steel, Nickel Plated |
| <b>Waterproof Rating</b>     | Receptacle: IP68<br>Overmolded with Cable: IP67<br>Field Installable: IP67                                                         |
| <b>Temperature Range</b>     | Receptacle: -20°C~105°C<br>Overmolded with Cable: -20°C~80°C<br>Field Installable: -20°C~105°C                                     |
| <b>Contact Resistance</b>    | ≤ 20mΩ                                                                                                                             |
| <b>Insulation Resistance</b> | ≥ 500mΩ at DC500V                                                                                                                  |
| <b>Durability</b>            | 500 cycles                                                                                                                         |
| <b>Breakdown Voltage</b>     | ≥ AC500V / 1 minute                                                                                                                |
| <b>More to know</b>          | Standard Cable Length: 01~99M                                                                                                      |

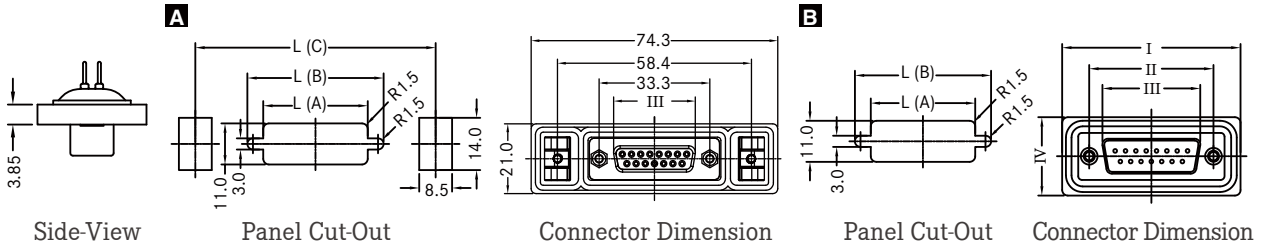
# Ordering Information

|                                   | 1 | 2 | 3                                      | 4 | 5                         | 6 | 7 | 8 | 9 | 10 |
|-----------------------------------|---|---|----------------------------------------|---|---------------------------|---|---|---|---|----|
| <b>Specification</b>              |   |   |                                        |   |                           |   |   |   |   |    |
| <u>&gt; Standard</u>              |   |   | <u>&gt; High Density</u>               |   |                           |   |   |   |   |    |
| <b>(SDB)</b> D-SUB                |   |   | <b>(HDB)</b> High Density D-SUB        |   |                           |   |   |   |   |    |
| <b>Number of Contacts</b>         |   |   |                                        |   |                           |   |   |   |   |    |
| 09,15,,25,26...78 Contacts        |   |   |                                        |   |                           |   |   |   |   |    |
| Ex. 09 Pin = <b>(09)</b>          |   |   |                                        |   |                           |   |   |   |   |    |
| <b>Connector Body (Style)</b>     |   |   |                                        |   |                           |   |   |   |   |    |
| <u>&gt; For Receptacle</u>        |   |   | <u>&gt; For Overmolded with Cable</u>  |   |                           |   |   |   |   |    |
| <b>(P)</b> Front Fastened         |   |   | <b>(A)</b> With Strain Relief          |   |                           |   |   |   |   |    |
|                                   |   |   | <u>&gt; For Field installable</u>      |   |                           |   |   |   |   |    |
|                                   |   |   | <b>(B)</b> Without Strain Relief       |   |                           |   |   |   |   |    |
| <b>Connector (Housing) Gender</b> |   |   |                                        |   |                           |   |   |   |   |    |
| <b>(M)</b> Male                   |   |   | <b>(F)</b> Female                      |   |                           |   |   |   |   |    |
| <b>Contact Gender</b>             |   |   |                                        |   |                           |   |   |   |   |    |
| <b>(M)</b> Male (Plug)            |   |   | <b>(F)</b> Female (Jack)               |   |                           |   |   |   |   |    |
| <b>Assemble Style</b>             |   |   |                                        |   |                           |   |   |   |   |    |
| <u>&gt; For Receptacle</u>        |   |   | <u>&gt; For Overmolded with Cable</u>  |   |                           |   |   |   |   |    |
| <b>(S)</b> Solder Type            |   |   | <b>(M)</b> Overmolded with Cable       |   |                           |   |   |   |   |    |
| <b>(P)</b> PCB Type (90° / 180°)  |   |   | <u>&gt; For Field Installable</u>      |   |                           |   |   |   |   |    |
|                                   |   |   | <b>(A)</b> Field Installable (Solder)  |   |                           |   |   |   |   |    |
|                                   |   |   | <b>(C)</b> Field Installable (Crimped) |   |                           |   |   |   |   |    |
| <b>Mating Style</b>               |   |   |                                        |   |                           |   |   |   |   |    |
| <b>(S)</b> Screw Thread           |   |   | <b>(Q)</b> Automated Latch             |   |                           |   |   |   |   |    |
| <b>Backshell</b>                  |   |   |                                        |   |                           |   |   |   |   |    |
| <u>&gt; For Receptacle</u>        |   |   | <u>&gt; For Overmolded with Cable</u>  |   |                           |   |   |   |   |    |
| (With Board Lock)                 |   |   | (Without Board Lock)                   |   |                           |   |   |   |   |    |
| <b>(A)</b> Straight               |   |   | <b>(L)</b> Straight                    |   |                           |   |   |   |   |    |
| <b>(B)</b> Right Angle            |   |   | <u>&gt; For Field Installable</u>      |   |                           |   |   |   |   |    |
| (Without Board Lock)              |   |   | (Without Board Lock)                   |   |                           |   |   |   |   |    |
| <b>(L)</b> Straight               |   |   | <b>(L)</b> Straight                    |   |                           |   |   |   |   |    |
| <b>(R)</b> Right Angle            |   |   |                                        |   |                           |   |   |   |   |    |
| <b>Waterproof Rating</b>          |   |   |                                        |   |                           |   |   |   |   |    |
| <b>(7)</b> IP 67                  |   |   |                                        |   |                           |   |   |   |   |    |
| <b>(8)</b> IP 68                  |   |   |                                        |   |                           |   |   |   |   |    |
| <b>More Information</b>           |   |   |                                        |   |                           |   |   |   |   |    |
| <u>&gt; For Receptacle</u>        |   |   | <u>&gt; For Overmolded with Cable</u>  |   |                           |   |   |   |   |    |
| (001), (002).....                 |   |   | (□)+(■) : Cable Type + Cable Length    |   |                           |   |   |   |   |    |
| Without Cable : Different         |   |   | EX. <b>(A01)</b> = UL2464 Cable + 1M   |   |                           |   |   |   |   |    |
| Versions                          |   |   | <u>(□) : Cable Type</u>                |   | <u>(■) : Cable Length</u> |   |   |   |   |    |
|                                   |   |   | <b>(A)</b> UL2464 Cable                |   | From 1M to 99M            |   |   |   |   |    |
|                                   |   |   |                                        |   | EX. <b>(01)</b> = 1M      |   |   |   |   |    |



# Physical Dimension

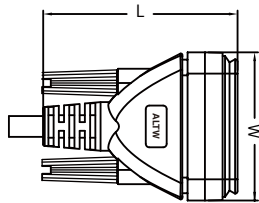
## Receptacle



| Dimension          |                |                    | Type          | L (A) | L (B) | L (C) | I      | II    | III    | IV    |
|--------------------|----------------|--------------------|---------------|-------|-------|-------|--------|-------|--------|-------|
| Connector          | Current Rating | Number of Contacts | Female / Male |       |       |       | Female | Male  | Female | Male  |
| Standard D-SUB     | 5A             | 9Pins              | B             | 20.0  | 28.2  | -     | 39.4   | 25.0  | 16.33  | 16.92 |
|                    |                | 15Pins             | A             | 28.0  | 36.5  | 58.4  | -      | -     | 24.66  | 25.25 |
|                    |                | 25Pins             | B             | 28.0  | 36.5  | -     | 47.8   | 33.3  | 24.66  | 25.25 |
|                    |                | 37Pins             | B             | 41.5  | 51.0  | -     | 64.5   | 47.04 | 38.38  | 38.96 |
|                    |                | 50Pins             | B             | 57.9  | 67.8  | -     | 78.4   | 63.5  | 54.8   | 55.4  |
|                    |                | 62Pins             | B             | 55.5  | 65.0  | -     | 75.9   | 61.1  | 52.25  | 52.81 |
| High Density D-SUB | 2A             | 15Pins             | B             | 20.2  | 28.2  | -     | 39.4   | 25.0  | 16.33  | 16.92 |
|                    |                | 26Pins             | A             | 28.0  | 36.5  | 58.4  | -      | -     | 24.66  | 25.25 |
|                    |                | 44Pins             | B             | 28.0  | 36.5  | -     | 47.8   | 33.3  | 24.66  | 25.25 |
|                    |                | 62Pins             | B             | 41.5  | 51.0  | -     | 64.5   | 47.04 | 38.38  | 38.96 |
|                    |                | 78Pins             | B             | 57.9  | 67.8  | -     | 78.4   | 63.5  | 54.8   | 55.4  |
|                    |                | 78Pins             | B             | 55.5  | 65.0  | -     | 75.9   | 61.1  | 52.25  | 52.81 |

\* Maximum Panel Thickness: 2mm

## Overmolded with Cable

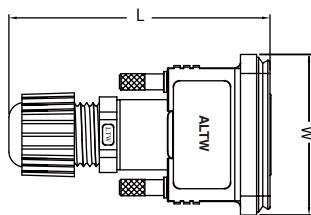


With Strain Relief / Straight

| Dimension          |                |                    | L             | W             |
|--------------------|----------------|--------------------|---------------|---------------|
| Connector          | Current Rating | Number of Contacts | Female / Male | Female / Male |
| Standard D-SUB     | 5A             | 9                  | 55.9          | 42.4          |
|                    |                | 15                 | 53.5          | 50.6          |
|                    |                | 25                 | 60.0          | 64.5          |
|                    |                | 37                 | 69.3          | 81.1          |
|                    |                | 50                 | 71.8          | 79.3          |
| High Density D-SUB | 2A             | 15                 | 55.9          | 42.4          |
|                    |                | 26                 | 53.5          | 50.6          |
|                    |                | 44                 | 60.0          | 64.5          |
|                    |                | 62                 | 69.3          | 81.1          |
|                    |                | 78                 | 71.8          | 79.3          |

Dimensions are shown in millimeters

## Field Installable



Without Strain Relief / Straight

| Dimension          |                |                    | L             | W             |
|--------------------|----------------|--------------------|---------------|---------------|
| Connector          | Current Rating | Number of Contacts | Female / Male | Female / Male |
| Standard D-SUB     | 5A             | 9                  | 66.8          | 42.8          |
|                    |                | 15                 | 63.0          | 50.7          |
|                    |                | 25                 | 81.6          | 50.6          |
|                    |                | 25                 | 91.9          | 64.4          |
| High Density D-SUB | 2A             | 15                 | 66.8          | 42.8          |
|                    |                | 26                 | 63.0          | 50.7          |
|                    |                | 44                 | 81.6          | 50.6          |

Dimensions are shown in millimeters

# Contact Configuration

|               | Standard D-SUB<br>(5A)                                                                     | High Density D-SUB<br>(2A)                                                                   |
|---------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 9Pin<br>(09)  | <br>R C F |                                                                                              |
| 15Pin<br>(15) | <br>R C F | <br>R C F   |
| 25Pin<br>(25) | <br>R C F |                                                                                              |
| 26Pin<br>(26) |                                                                                            | <br>R C F   |
| 37Pin<br>(37) | <br>R C |                                                                                              |
| 44Pin<br>(44) |                                                                                            | <br>R C F |
| 50Pin<br>(50) | <br>R C |                                                                                              |
| 62Pin<br>(62) |                                                                                            | <br>R C   |
| 78Pin<br>(78) |                                                                                            | <br>R C   |

R: Receptacle

C: Overmolded with Cable

F: Field Installable

▲ 2A (HDB)

● 5A (SDB)

1

Number of Contacts :

2

Ex.2 contacts (02)

Connector (Housing) Gender:

4

Male(M) or Female(F)

Contact Gender:

5

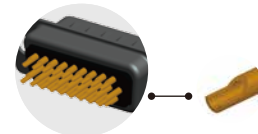
Male(M) or Female(F)

More to Choose:

6

● Solder (S)

- Solder Contact



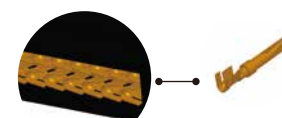
● PCB Type (P)

- 90° PCB

- 180° PCB

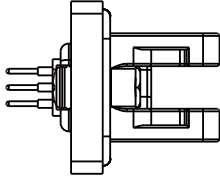


● Crimp type (C)

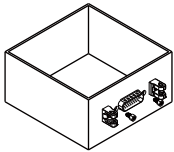


## Product Features

### Receptacle

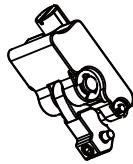


#### Connector Body(Style) 3



Front  
Fastened (P)

#### Mating Style 7

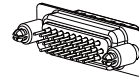


Automated Latch (Q)

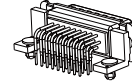


Screw Thread (S)

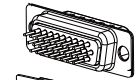
#### Backshell 8



(With Board Lock)  
Straight (A)



Right Angle (B)

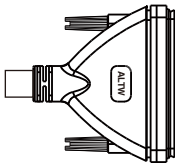


(Without Board Lock)  
Straight (L)

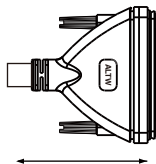


Right Angle (R)

### Overmolded with Cable



#### Backshell 8



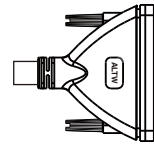
Straight (L)

#### Mating Style 7



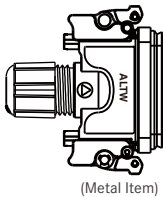
Screw Thread (S)

#### Connector Body(Style) 3



With Strain Relief (A)

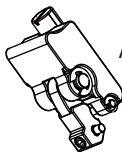
### Field Installable



(Metal Item)

#### Mating Style 7

(Metal Item)



Automated Latch (Q)

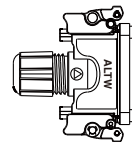
#### Mating Style 7

(Plastic Item)



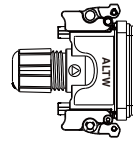
Screw Thread (S)

#### Connector Body(Style) 3

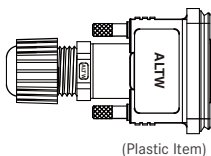


Without Strain Relief (B)

#### Backshell 8



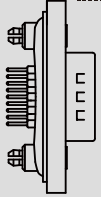
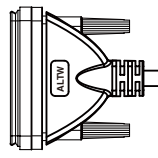
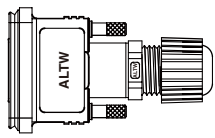
Straight (L)



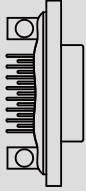
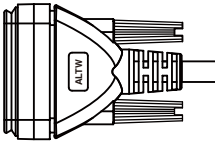
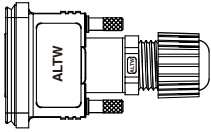
(Plastic Item)

## Find Our Standard Products

### Receptacle and Mating Pair

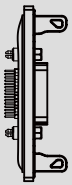
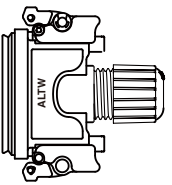
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Screw Thread</li> <li>• Plastic Connectors</li> </ul> |                    | Receptacle                                                                                                                                                                                                | Overmolded with Cable  | Field Installable                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                       | Contacts ②         | Male Connector (M)<br>Male Contacts (M)                                                                                                                                                                                                                                                    | Female Connector (F)<br>Female Contacts (F)                                                             | Female Connector (F)<br>Female Contacts (F)                                                                                |
| Standard D-SUB 5A (SDB)                                                                                                                                     | 09, 15, 25, 37, 50 | SDB-② PMMP-SA8001<br>SDB-② PMMP-SB8001<br>SDB-② PMMP-SL8001<br>SDB-② PMMP-SR8001<br>SDB-② PMMS-SL8001                                                                                                                                                                                      | SDB-② AFFM-SL7A**                                                                                       | SDB-② BFFA-SL7001<br>SDB-② BFFC-SL7001                                                                                     |
| High Density D-SUB 2A (HDB)                                                                                                                                 | 15, 26, 44, 62, 78 | HDB-② PMMP-SA8001<br>HDB-② PMMP-SB8001<br>HDB-② PMMP-SL8001<br>HDB-② PMMP-SR8001<br>HDB-② PMMS-SL8001                                                                                                                                                                                      | HDB-② AFFM-SL7A**                                                                                       | HDB-② BFFA-SL7001                                                                                                          |
|                                                                                                                                                             |                    | - PCB 180° with Board Lock :<br>5A (SDB) 09 / 15 / 25 / 37 pins.<br>2A (HDB) 15 / 26 / 44 / 62 pins.<br>- PCB 90° with Board Lock:<br>5A (SDB) 09 / 15 pins.<br>2A (HDB) 15 / 26 pins.<br>- Solder Type:<br>5A (SDB) 09 / 15 / 25 / 37 / 50 pins.<br>2A (HDB) 15 / 26 / 44 / 62 / 78 pins. |                                                                                                         | - Crimp Pin:<br>5A (SDB) 09 / 15 / 25 pins.<br>- Solder Pin:<br>5A (SDB) 09 / 15 / 25 pins.<br>2A (HDB) 15 / 26 / 44 pins. |

## Receptacle and Mating Pair

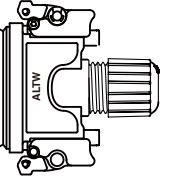
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> <li>• Plastic Connectors</li> </ul> |                   | Receptacle                                                                                                                                                                                                                     | Overmolded with Cable  | Field Installable                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Current Rating (Code)                                                                                                                                           | Contacts <b>2</b> | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                                                                                     | Male Connector (M)<br>Male Contacts (M)                                                                 | Male Connector (M)<br>Male Contacts (M)                                                                                                  |
| Standard D-SUB 5A (SDB)                                                                                                                                         | 09,15,25,37,50    | SDB- <b>2</b> PFFP-SA8001<br>SDB- <b>2</b> PFFP-SB8001<br>SDB- <b>2</b> PFFP-SL8001<br>SDB- <b>2</b> PFFP-SR8001<br>SDB- <b>2</b> PFFS-SL8001                                                                                                                                                                   | SDB- <b>2</b> AMMM-SL7A**                                                                               | SDB- <b>2</b> BMMA-SL7001<br>SDB- <b>2</b> BMMA-SL7001                                                                                   |
| High Density D-SUB 2A (HDB)                                                                                                                                     | 15,26,44,62,78    | HDB- <b>2</b> PFFP-SA8001<br>HDB- <b>2</b> PFFP-SB8001<br>HDB- <b>2</b> PFFP-SL8001<br>HDB- <b>2</b> PFFP-SR8001<br>HDB- <b>2</b> PFFS-SL8001                                                                                                                                                                   | HDB- <b>2</b> AMMM-SL7A**                                                                               | HDB- <b>2</b> BMMA-SL7001                                                                                                                |
|                                                                                                                                                                 |                   | - <b>PCB 180° with Board Lock :</b><br>5A (SDB) 09 / 15 / 25 / 37 pins.<br>2A (HDB) 15 / 26 / 44 / 62 pins.<br>- <b>PCB 90° with Board Lock:</b><br>5A (SDB) 09 / 15 pins.<br>2A (HDB) 15 / 26 pins.<br>- <b>Solder Type:</b><br>5A (SDB) 09 / 15 / 25 / 37 / 50 pins.<br>2A (HDB) 15 / 26 / 44 / 62 / 78 pins. |                                                                                                         | - <b>Crimp Pin:</b><br>5A (SDB) 09 / 15 / 25 pins.<br>- <b>Solder Pin:</b><br>5A (SDB) 09 / 15 / 25 pins.<br>2A (HDB) 15 / 26 / 44 pins. |

\* Design and specification are subject to change without notice.

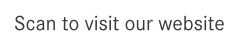
## Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Male Contacts</li> <li>• Automated Latch</li> <li>• Metal Connectors</li> </ul> |          | Receptacle                                                                        | Overmolded with Cable                                                             | Field Installable                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                              |          |  |  |  |
| Current Rating (Code)                                                                                                                                        | Contacts | Male Connector (M)<br>Male Contacts (M)                                           | Female Connector (F)<br>Female Contacts (F)                                       | Female Connector (F)<br>Female Contacts (F)                                         |
| Standard D-SUB 5A (SDB)                                                                                                                                      | 15       | SDB-15PMMP-QA8001<br>SDB-15PMMP-QB8001<br>SDB-15PMMP-QL8001<br>SDB-15PMMS-QL8001  | -                                                                                 | SDB-15BFFA-QL7001                                                                   |
| High Density D-SUB 2A (HDB)                                                                                                                                  | 26       | HDB-26PMMP-QA8001<br>HDB-26PMMP-QB8001<br>HDB-26PMMP-QL8001<br>HDB-26PMMS-QL8001  | -                                                                                 | HDB-26BFFA-QL7001                                                                   |

## Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Automated Latch</li> <li>• Metal Connectors</li> </ul> |          | Receptacle                                                                          | Overmolded with Cable                                                               | Field Installable                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                                                                                                                  |          |  |  |  |
| Current Rating (Code)                                                                                                                                            | Contacts | Female Connector (F)<br>Female Contacts (F)                                         | Male Connector (M)<br>Male Contacts (M)                                             | Male Connector (M)<br>Male Contacts (M)                                               |
| Standard D-SUB 5A (SDB)                                                                                                                                          | 15       | SDB-15PFFP-QA8001<br>SDB-15PFFP-QB8001<br>SDB-15PFFP-QL8001<br>SDB-15PFFS-QL8001    | -                                                                                   | SDB-15BMMA-QL7001                                                                     |
| High Density D-SUB 2A (HDB)                                                                                                                                      | 26       | HDB-26PFFP-QA8001<br>HDB-26PFFP-QB8001<br>HDB-26PFFP-QL8001<br>HDB-26PFFS-QL8001    | -                                                                                   | HDB-26BMMA-QL7001                                                                     |

Blank lined paper for writing.

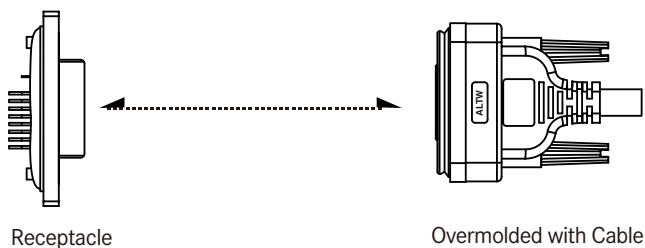


## DVI Connector



## Range Overview

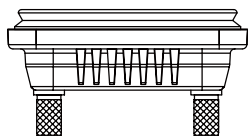
### Receptacle to Overmolded with Cable



Receptacle

Overmolded with Cable

### Accessories

Waterproof Cap  
See page 21-16



# Specification

|                              |                                                                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | DVI-D Single Link (DDS): Digital<br>DVI-D Dual Link (DDD): Digital<br>DVI-I Single Link (DIS): Digital and Analog<br>DVI-I Dual Link (DID): Digital and Analog |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable                                                                                                                            |
| <b>Current Rating / Data</b> | 1.5A                                                                                                                                                           |
| <b>Material</b>              | Contacts: Cooper Alloy, Gold Plated<br>Connector Body (Housing): Nylon + GF, UL<br>Recognized<br>Shell: Steel, Nickel Plated                                   |
| <b>Waterproof Rating</b>     | Receptacle: IP68<br>Overmolded with Cable: IP67                                                                                                                |
| <b>Temperature Range</b>     | Receptacle: -20°C~80°C<br>Overmolded with Cable: -20°C~80°C                                                                                                    |
| <b>Contact Resistance</b>    | $\leq 20\text{m}\Omega$                                                                                                                                        |
| <b>Insulation Resistance</b> | $\geq 1000\text{m}\Omega$ at DC500V                                                                                                                            |
| <b>Durability</b>            | 100 cycles                                                                                                                                                     |
| <b>Breakdown Voltage</b>     | $\geq$ AC 500V / 1 minute                                                                                                                                      |
| <b>More to know</b>          | Standard Cable Length: 01~05M                                                                                                                                  |

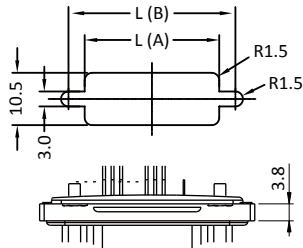
# Ordering Information

| 1                                                                                                                                                                                                                                                                                                    | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|----|
| <b>Specification</b><br>(DIS) DVI-I Single Link (DDS) DVI-D Single Link<br>(DID) DVI-I Dual Link (DDD) DVI-D Dual Link<br>* For digital and analog, please choose DVI-I<br>* For digital only, please choose DVI-D                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>Number of Contacts</b><br>19, 23, 25, 29... Contacts<br>Ex. 19 Pin = (19)                                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b><br>> For Receptacle > For Overmolded with Cable<br>(P) Front Fastened (A) With Strain Relief                                                                                                                                                                           |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b><br>(M) Male (F) Female                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |    |
| <b>Contact Gender</b><br>(M) Male (F) Female                                                                                                                                                                                                                                                         |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b><br>> For Receptacle > For Overmolded with Cable<br>(S) Solder Type (M) Overmolded with Cable                                                                                                                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b><br>(S) Screw Thread                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b><br>> For Receptacle > For Overmolded with Cable<br>(L) Straight / Without Board Lock (L) Straight                                                                                                                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b><br>(7) IP 67<br>(8) IP 68                                                                                                                                                                                                                                                   |   |   |   |   |   |   |   |   |    |
| <b>More Information</b><br>> For Receptacle > For Overmolded with Cable<br>(001), (002)..... (□)+(■) : Cable Type + Cable Length<br>Without Cable : Different Versions EX. (A01) = UL20276 Cable + 1M<br>(□) : Cable Type (■) : Cable Length<br>(A) UL20276 From 1M to 5M<br>28AWG/PVC EX. (01) = 1M |   |   |   |   |   |   |   |   |    |

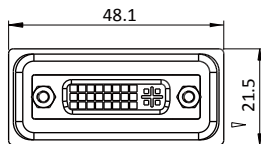
## Physical Dimension

### Receptacle

Panel Cut-Out



Connector Dimension



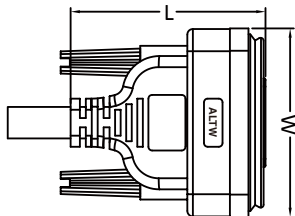
\* This only shows the actual dimension, and the actual product may differ

| Type                   | Dimension | L(A)  | L(B)  |
|------------------------|-----------|-------|-------|
| Connector Gender       |           | Male  |       |
| DVI-D Single Link(DDS) |           | 27.00 | 33.50 |
| DVI-D Dual Link(DDD)   |           | 27.00 | 33.50 |
| DVI-I Single Link(DIS) |           | 27.00 | 33.50 |
| DVI-I Dual Link(DID)   |           | 27.00 | 33.50 |

\* Maximum Panel Thickness: 2mm

Dimensions are shown in millimeters

### Overmolded with Cable



| Type                   | Dimension | L     | W     |
|------------------------|-----------|-------|-------|
| Connector Gender       |           | Male  |       |
| DVI-D Single Link(DDS) |           | 52.60 | 50.90 |
| DVI-D Dual Link(DDD)   |           | 52.60 | 50.90 |
| DVI-I Single Link(DIS) |           | 52.60 | 50.90 |
| DVI-I Dual Link(DID)   |           | 52.60 | 50.90 |

Dimensions are shown in millimeters

## Contact Configuration

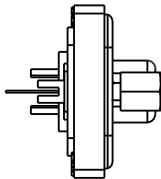
|                       |
|-----------------------|
| DVI-D Dual Link (DDD) |
|                       |
| 25 Contacts           |
| DVI-I Dual Link (DID) |
|                       |
| 29 Contacts           |

|                         |
|-------------------------|
| DVI-D Single Link (DDS) |
|                         |
| 19 Contacts             |
| DVI-I Single Link (DIS) |
|                         |
| 23 Contacts             |

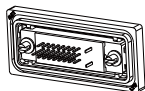
\* Design and specification are subject to change without notice.

# Product Features

## Receptacle



### Backshell 8



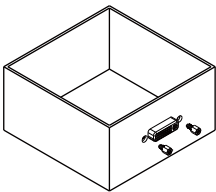
Straight (L)

### Mating Style 7



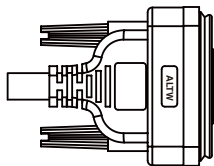
Screw Thread (S)

### Connector Body(Style) 3

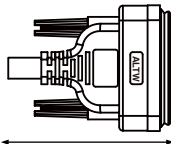


Front Fastened (P)

## Overmolded with Cable



### Backshell 8



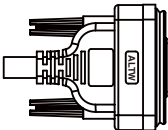
Straight  
(L)

### Mating Style 7



Screw Thread (S)

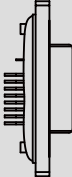
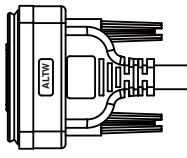
### Connector Body(Style) 3



With Strain Relief (A)

## Find Our Standard Products

### ▮ Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Screw Thread</li> </ul> | Receptacle                                                                        | Overmolded with Cable                                                                                                                          | Field Installable                       |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
|                                                                                                                                   |  | <br>** Choose UL20276 cable and select cable length from 1~5m |                                         |
| Code                                                                                                                              | Female Connector (F)<br>Female Contacts (F)                                       | Male Connector (M)<br>Male Contacts (M)                                                                                                        | Male Connector (M)<br>Male Contacts (M) |
| DVI-D Single Link <b>(DDS)</b>                                                                                                    | DDS-19PFFS-SL800 1                                                                | DDS-19AMMM-SL7A**                                                                                                                              | -                                       |
| DVI-D Dual Link <b>(DDD)</b>                                                                                                      | DDD-25PFFS-SL800 1                                                                | DDD-25AMMM-SL7A**                                                                                                                              | -                                       |
| DVI-I Single Link <b>(DIS)</b>                                                                                                    | DIS-23PFFS-SL800 1                                                                | DIS-23AMMM-SL7A**                                                                                                                              | -                                       |
| DVI-I Dual Link <b>(DID)</b>                                                                                                      | DID-29PFFS-SL800 1                                                                | DID-29AMMM-SL7A**                                                                                                                              | -                                       |

\* For digital and analog, please choose DVI-I

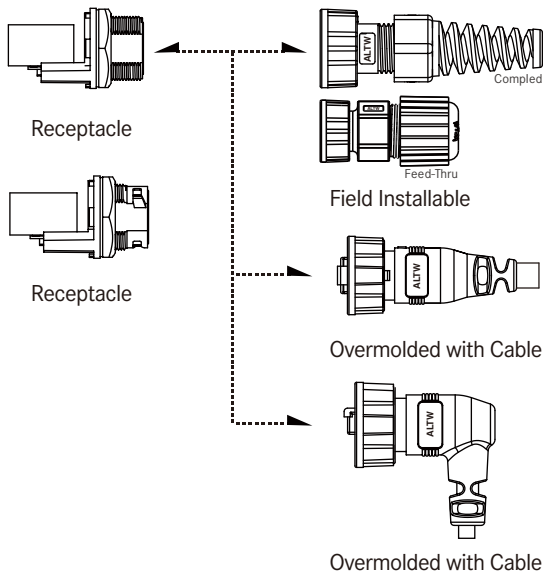
\* For digital only, please choose DVI-D

## RJ Connector

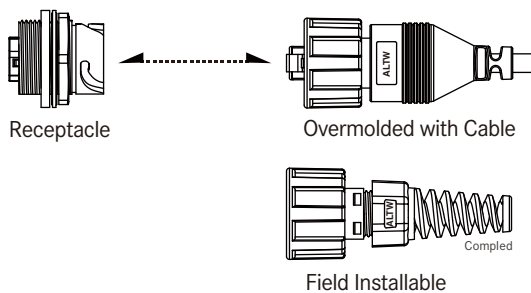


## Range Overview

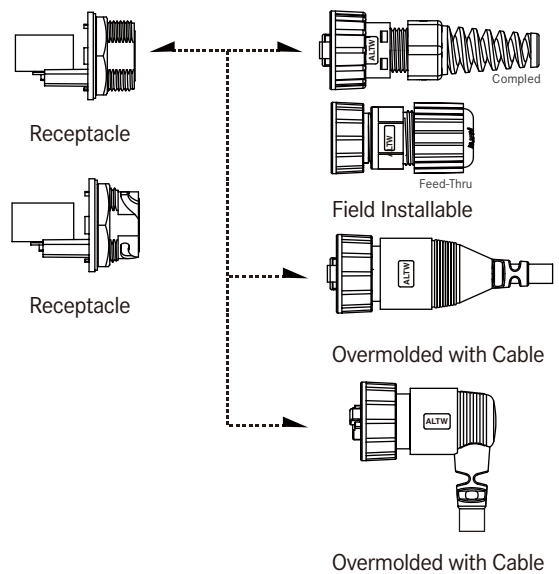
### Receptacle and Mating Pair ( Middle Size 13/16"-28UNS )



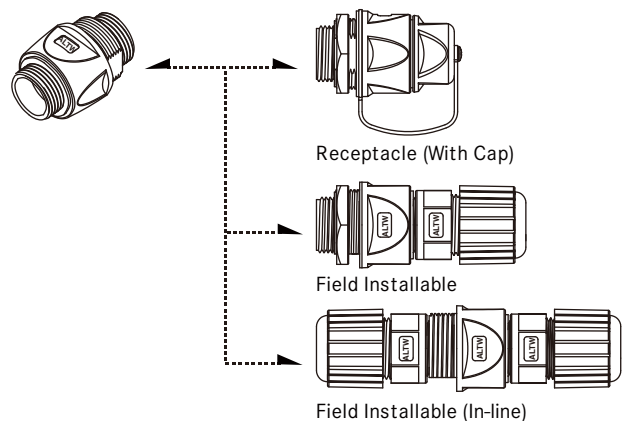
### Receptacle and Mating Pair ( ODVA )



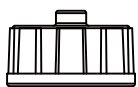
### Receptacle and Mating Pair ( Large Size 1"20-UNEF )



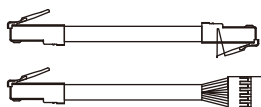
### I Adaptor



### Accessories



Waterproof Cap  
See page 21-17



Patch Cable (Double-ended)  
See page 21-24

\* Design and specification are subject to change without notice.

## Specification

|                              |                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | Middle Size: 13/16"-28 UNS (Cat. 5e)<br>Large Size: 1"-20 UNS (Cat. 5e)<br>ODVA (Cat. 5e)                                                                                                                                                                                                                       |
| <b>Description</b>           | Receptacle<br>Receptacle With Cable<br>Overmolded with Cable<br>Field Installable                                                                                                                                                                                                                               |
| <b>Current Rating / Data</b> | 100 Base, 100 Base T and 1000 Base T Networks<br>Cat 5E per TIA or EIA 568B<br>Class D per ISO / IEC 11801                                                                                                                                                                                                      |
| <b>Material</b>              | Connector Body:<br>-Housing: Polyester, UL94V-0, UV Resistant<br>-Fastening Nut (Panel Side): Polyester UL94V-0,UV Resistant<br>-Mating Lock Nut: Polyester , UL94V-0,UV Resistant<br>RJ45 Jack and Plug Contacts: Phosphor Bronze, Gold Plated<br>Cable Termination: Flame Protection per UL94V-0,UV Resistant |
| <b>Waterproof Rating</b>     | IP67                                                                                                                                                                                                                                                                                                            |
| <b>Temperature Range</b>     | Receptacle: -40 °C~105 °C<br>Overmolded with Cable: -20 °C~80 °C                                                                                                                                                                                                                                                |
| <b>Contact Resistance</b>    | ≤ 20mΩ                                                                                                                                                                                                                                                                                                          |
| <b>Insulation Resistance</b> | ≥ 500mΩ at DC500V                                                                                                                                                                                                                                                                                               |
| <b>Durability</b>            | 750 cycles                                                                                                                                                                                                                                                                                                      |
| <b>Breakdown Voltage</b>     | ≥ AC1000V / 1 minute                                                                                                                                                                                                                                                                                            |
| <b>More to know</b>          | Thermal shock: -20°C~80°C 5cycls<br>Salt Spray Corrosion: 48H<br>POE: 60W /2A<br>Standard Cable Length: 01-99M                                                                                                                                                                                                  |



# Ordering Information

|                                     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------------------------------------|---|---|---|---|---|---|---|---|---|----|
| <b>Specification</b>                |   |   |   |   |   |   |   |   |   |    |
| (RCP) RJ45 C Size (Plastic)         |   |   |   |   |   |   |   |   |   |    |
| (RCM) RJ45 C Size (Metal)           |   |   |   |   |   |   |   |   |   |    |
| (RDP) RJ45 D Size (Plastic)         |   |   |   |   |   |   |   |   |   |    |
| (RDM) RJ45 D Size (Metal)           |   |   |   |   |   |   |   |   |   |    |
| (ROP) RJ45 ODVA (Plastic)           |   |   |   |   |   |   |   |   |   |    |
| <b>Cat Type &amp; Shielded</b>      |   |   |   |   |   |   |   |   |   |    |
| (00) None                           |   |   |   |   |   |   |   |   |   |    |
| (5S) Cat.5e shielded                |   |   |   |   |   |   |   |   |   |    |
| (5U) Cat.5e Unshielded              |   |   |   |   |   |   |   |   |   |    |
| <b>Connector Body (Style)</b>       |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                    |   |   |   |   |   |   |   |   |   |    |
| (P) Front Fastened                  |   |   |   |   |   |   |   |   |   |    |
| (R) Rear Fastened                   |   |   |   |   |   |   |   |   |   |    |
| (D) Dual Fastened                   |   |   |   |   |   |   |   |   |   |    |
| > For Overmolded with Cable         |   |   |   |   |   |   |   |   |   |    |
| (A) With Strain Relief              |   |   |   |   |   |   |   |   |   |    |
| (B) Without Strain Relief           |   |   |   |   |   |   |   |   |   |    |
| > For Field Installable             |   |   |   |   |   |   |   |   |   |    |
| (A) With Strain Relief              |   |   |   |   |   |   |   |   |   |    |
| (B) Without Strain Relief           |   |   |   |   |   |   |   |   |   |    |
| <b>Connector (Housing) Gender</b>   |   |   |   |   |   |   |   |   |   |    |
| (MM) Plug                           |   |   |   |   |   |   |   |   |   |    |
| (FF) Jack                           |   |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b>               |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                    |   |   |   |   |   |   |   |   |   |    |
| (H) Jack 180 (Horizontal)           |   |   |   |   |   |   |   |   |   |    |
| (V) Jack 90 (Vertical)              |   |   |   |   |   |   |   |   |   |    |
| > For Overmolded with Cable         |   |   |   |   |   |   |   |   |   |    |
| (M) Overmolded with Cable           |   |   |   |   |   |   |   |   |   |    |
| > For Field Installable             |   |   |   |   |   |   |   |   |   |    |
| (A) Field installable (Compled)     |   |   |   |   |   |   |   |   |   |    |
| (S) Field installable (Feed-Thru)   |   |   |   |   |   |   |   |   |   |    |
| <b>Mating Style</b>                 |   |   |   |   |   |   |   |   |   |    |
| (T) 3 Points Lock Bayonet           |   |   |   |   |   |   |   |   |   |    |
| (S) Screw Thread                    |   |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b>                    |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                    |   |   |   |   |   |   |   |   |   |    |
| (C) Circular                        |   |   |   |   |   |   |   |   |   |    |
| (S) Square                          |   |   |   |   |   |   |   |   |   |    |
| > For Overmolded with Cable         |   |   |   |   |   |   |   |   |   |    |
| (L) Straight                        |   |   |   |   |   |   |   |   |   |    |
| (R) Right Angle                     |   |   |   |   |   |   |   |   |   |    |
| > For Field Installable             |   |   |   |   |   |   |   |   |   |    |
| (L) Straight                        |   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Types</b>             |   |   |   |   |   |   |   |   |   |    |
| (U) Unmated Waterproof              |   |   |   |   |   |   |   |   |   |    |
| (M) Mated Waterproof                |   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b>            |   |   |   |   |   |   |   |   |   |    |
| (7) IP 67                           |   |   |   |   |   |   |   |   |   |    |
| *IP 68 upon request.                |   |   |   |   |   |   |   |   |   |    |
| <b>More information</b>             |   |   |   |   |   |   |   |   |   |    |
| > For Receptacle                    |   |   |   |   |   |   |   |   |   |    |
| (001), (002).....                   |   |   |   |   |   |   |   |   |   |    |
| > For Overmolded with Cable         |   |   |   |   |   |   |   |   |   |    |
| (□)+(■) : Cable Type + Cable Length |   |   |   |   |   |   |   |   |   |    |
| (□) : Cable Type                    |   |   |   |   |   |   |   |   |   |    |
| (A) C5e UTP Solid Cable             |   |   |   |   |   |   |   |   |   |    |
| (B) C5e FTP Solid Cable             |   |   |   |   |   |   |   |   |   |    |
| (■) : Cable Length                  |   |   |   |   |   |   |   |   |   |    |
| From 1M to 99M                      |   |   |   |   |   |   |   |   |   |    |
| EX. (01) = 1M                       |   |   |   |   |   |   |   |   |   |    |

\* Design and specification are subject to change without notice.

# Ordering Information | Double-ended

ALTW waterproof connector to ALTW waterproof connector

ALTW waterproof connector to Standard RJ connector (None Waterproof)

f to Waterproof / Non-Waterproof

1

2

3

4

5

6

7

8

9

## Specification (1st End)

(RCP) RJ45 C Size (Plastic)

(RCM) RJ45 C Size (Metal)

(RDP) RJ45 D Size (Plastic)

(RDM) RJ45 D Size (Metal)

(ROP) RJ45 ODVA (Plastic)

## Cat Type & Shielded (1st End)

(5U) Cat.5e Unshielded

(5S) Cat.5e Shielded

## Connector (Housing) Gender (1st End)

(M) Plug

(F) Jack

## Specification (2nd End)

> For Waterproof Connectors

(RCP) RJ45 C Size (Plastic)

(RCM) RJ45 C Size (Metal)

(RDP) RJ45 D Size (Plastic)

(RDM) RJ45 D Size (Metal)

(ROP) RJ45 ODVA (Plastic)

> For Non-Waterproof Plug

(UPG) Unshielded Plug

(SPG) Shielded Plug

## Cat Type & Shielded (2nd End)

> For Waterproof Connectors

(5U) Cat.5e Unshielded

(5S) Cat.5e Unshielded

> For Non-Waterproof Plug

(06) Gold Plating 6u"

## Connector (Housing) Gender (2nd End)

(M) Plug

## Mating Style

(T) 3 Points Lock Bayonet

(S) Screw Thread

## Backshell

> For Overmolded with Cable

(L) Straight

(R) Right Angle

## More information

> For Overmolded with Cable

(□)+(■) : Cable Type + Cable Length

(□) : Cable Type

(■) : Cable Length

(A) C5e UTP Solid Cable

From 1M to 99M

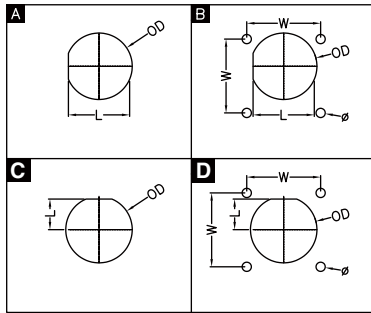
(B) C5e FTP Solid Cable

EX. (01) = 1M

## Physical Dimension

### Receptacle

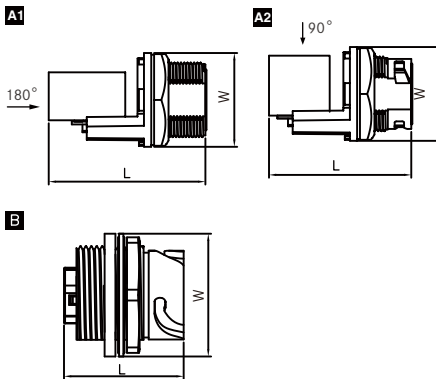
Panel Cut-Out



| Type \ Dimension                | Type   | L / W     | OD   | ø        |
|---------------------------------|--------|-----------|------|----------|
| Connector Gender (Housing)      | Female |           |      |          |
| Middle Size<br>( 13/16"-28 UNS) | A      | 19.4      | 20.8 | -        |
|                                 | B      | 19.4/24.4 | 20.8 | 3.1      |
| Large Size<br>(1"20 UNEF)       | A      | 23.6      | 25.6 | -        |
|                                 | B      | 23.6/24.4 | 25.6 | 3.1      |
| ODVA                            | C      | 12.4      | 27.1 | -        |
|                                 | D      | 12.4/25.9 | 27.1 | M3.0*0.5 |

Dimensions are shown in millimeters

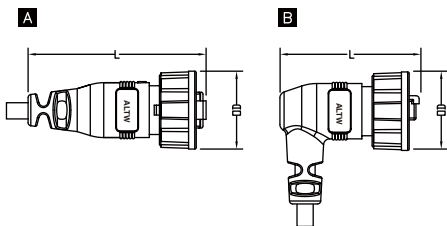
Connector Dimension



| Type \ Dimension               | Type   | Shape  | L    | W    |
|--------------------------------|--------|--------|------|------|
| Connector Gender (Housing)     | Female |        |      |      |
| Middle Size<br>(13/16"-28 UNS) | A1     | Circle | 44.0 | 26.0 |
|                                |        | Square | 44.0 | 32.0 |
|                                | A2     | Circle | 39.9 | 26.0 |
|                                |        | Square | 39.9 | 32.0 |
| Large Size<br>(1"20 UNEF)      | A1     | Circle | 44.0 | 32.0 |
|                                |        | Square | 44.0 |      |
|                                | A2     | Circle | 39.9 | 32.0 |
|                                |        | Square | 39.9 |      |
| ODVA                           | B      | Circle | 33.2 | 34.0 |
|                                |        | Square | 33.2 | 36.0 |

\* Choose backshell: Circular (C) or Square Flange (S) | Dimensions are shown in millimeters

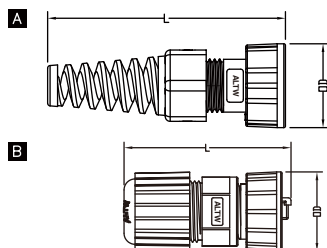
### Overmolded with Cable



| Type \ Dimension               | Type | L      |      | OD     |      |
|--------------------------------|------|--------|------|--------|------|
| Connector Gender (Housing)     |      | Female | Male | Female | Male |
| Middle Size<br>(13/16"-28 UNS) | A    | -      | 58.0 | -      | 25.4 |
|                                | B    | -      | 45.0 | -      | 25.4 |
| Large Size<br>(1"20 UNEF)      | A    | -      | 73.6 | -      | 28.8 |
|                                | B    | -      | 53.4 | -      | 28.8 |
| ODVA                           | A    | -      | 79.3 | -      | 31.5 |

Dimensions are shown in millimeters

### Field Installable



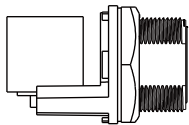
| Type \ Dimension               | Type | L      |      | OD     |      |
|--------------------------------|------|--------|------|--------|------|
| Connector Gender (Housing)     |      | Female | Male | Female | Male |
| Middle Size<br>(13/16"-28 UNS) | A    | -      | 72.0 | -      | 25.4 |
|                                | B    | -      | 40.7 | -      | 25.4 |
| Large Size<br>(1"20 UNEF)      | A    | -      | 76.7 | -      | 25.4 |
|                                | B    | -      | 59.7 | -      | 32.0 |
| ODVA                           | A    | -      | 77.6 | -      | 31.5 |

Dimensions are shown in millimeters

\* Design and specification are subject to change without notice.

## Product Features

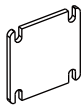
### Receptacle



#### Backshell <sup>7</sup>

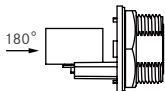
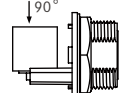


Circular (C)



Square (S)

#### Assembly Style <sup>5</sup>

Jack 180  
(Horizontal) (H)

Jack 90 (Vertical) (V)

#### Mating Style <sup>6</sup>

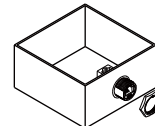


Screw Thread (S)

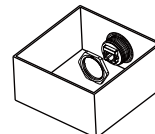
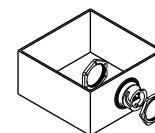


3 Points Lock (T)

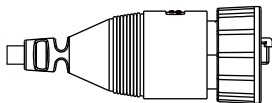
#### Connector Body(Style) <sup>3</sup>



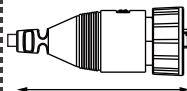
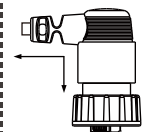
Front Fastened (P)

Rear Fastened(R)  
(For ODVA only)Double Fastened (D)  
(For ODVA only)

### Overmolded with Cable



#### Backshell <sup>7</sup>

Straight  
(L)Right Angle  
(R)

#### Mating Style <sup>6</sup>

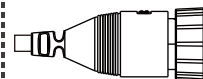


Screw Thread (S)



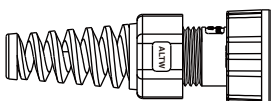
3 Points Lock (T)

#### Connector Body(Style) <sup>3</sup>

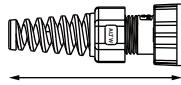


With Strain Relief (A)

### Field Installable



#### Backshell <sup>7</sup>

Straight  
(L)

#### Mating Style <sup>6</sup>

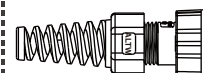


Screw Thread (S)



3 Points Lock (T)

#### Connector Body(Style) <sup>3</sup>

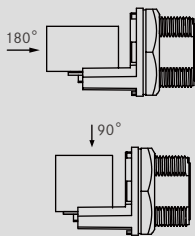
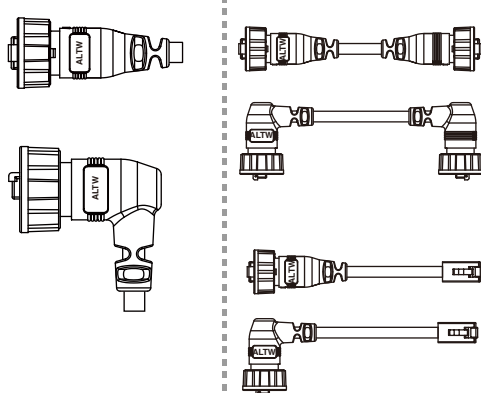
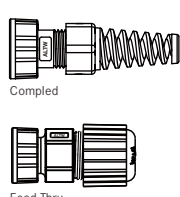


With Strain Relief (A)

\* Refer to P8-4 for Ordering Information

# Find Our Standard Products

## ▮ Middle Size 13/16"-28 UNS > Receptacle and Mating Pair

| <ul style="list-style-type: none"><li>• Female Connector (Housing)</li><li>• Female Contacts</li><li>• Screw Thread</li></ul> |          | <p>Receptacle</p>  | <p>Overmolded with Cable</p>  |                                             | <p>Field Installable</p>  |
|-------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                                                                                                               |          | <p><b>8</b> Choose unmated (U) or mated (M) waterproof</p>                                          | <p><b>2</b> Choose shielded (5S) or unshielded (5U)<br/>*** Choose the cable length:01-99m</p>                  | <p>*** Choose the cable length:01-99m</p>   |                                                                                                              |
| Cat. 5e                                                                                                                       |          | Female Connector (F)<br>Female Contacts (F)                                                         | Male Connector (M)<br>Male Contacts (M)                                                                         | Male Connector (M)<br>Male Contacts (M)     | Male Connector (M)<br>Male Contacts (M)                                                                      |
| Plastic                                                                                                                       | Jack 180 | RCP-5SPFFH-SC <b>8</b> 7001<br>RCP-5SPFFH-SS <b>8</b> 7001                                          | RCP-5 <b>2</b> AMMM-SLM7***<br>RCP-5 <b>2</b> AMMM-SRM7***                                                      | RCP5UM-RCP5UM-SL ***<br>RCP5UM-RCP5UM-SR*** | RCP-00AMMA-SLM7001<br>RCP-00BMMS-SLM7001                                                                     |
|                                                                                                                               | Jack 90  | RCP-5SPFFV-SC <b>8</b> 7001<br>RCP-5SPFFV-SS <b>8</b> 7001                                          |                                                                                                                 | RCP5UM-UPG06M-SL ***<br>RCP5UM-UPG06M-SR*** |                                                                                                              |
| Metal                                                                                                                         | Jack 180 | RCM-5SPFFH-SC <b>8</b> 7001<br>RCM-5SPFFH-SS <b>8</b> 7001                                          | RCM-5 <b>2</b> AMMM-SLM7***<br>RCM-5 <b>2</b> AMMM-SRM7***                                                      | -                                           | -                                                                                                            |
|                                                                                                                               | Jack 90  | RCM-5SPFFV-SC <b>8</b> 7001<br>RCM-5SPFFV-SS <b>8</b> 7001                                          |                                                                                                                 |                                             |                                                                                                              |

\* Refer to P8-5 for ordering.

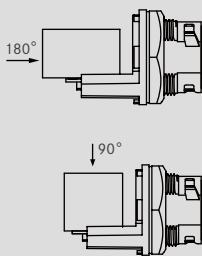
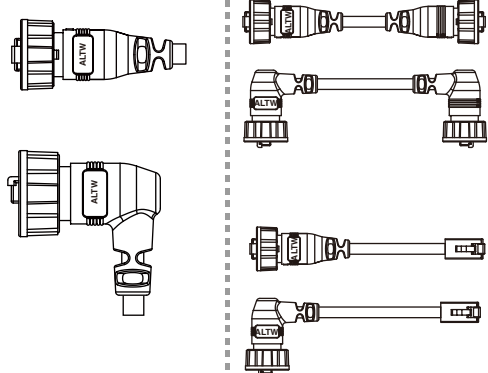
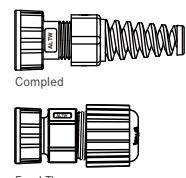
**Middle Size 13-16"-28UNS**

Receptacle and Mating Pair  
3 Points Lock Bayonet

**IP 67 9**

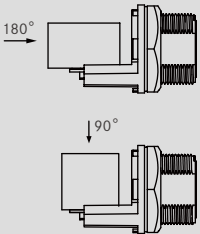
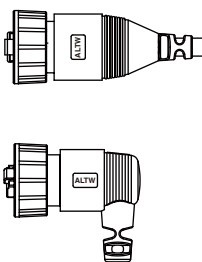
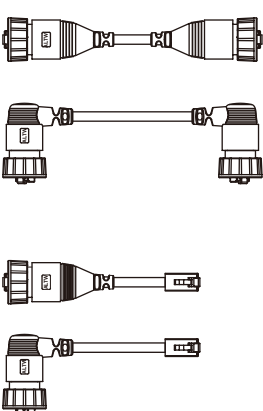
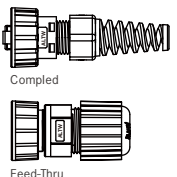
Receptacle | Unmated & Mated  
Overmolded with Cable | Mated  
Field Installable | Mated

## Middle Size 13/16"-28 UNS > Receptacle and Mating Pair

|                                                                                                                                      |          | Receptacle                                                                        | Overmolded with Cable                                                                   |                                            | Field Installable                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Female Contacts</li> <li>3 Points Lock Bayonet</li> </ul> |          |  |       |                                            |  |
|                                                                                                                                      |          | <b>8</b> Choose unmated (U) or mated (M) waterproof                               | <b>2</b> Choose shielded (5S) or unshielded (5U)<br>*** Choose the cable length: 01-99m |                                            | *** Choose the cable length: 01-99m                                                 |
| Cat. 5e                                                                                                                              |          | Female Connector (F)<br>Female Contacts (F)                                       | Male Connector (M)<br>Male Contacts (M)                                                 | Male Connector (M)<br>Male Contacts (M)    | Male Connector (M)<br>Male Contacts (M)                                             |
| Plastic                                                                                                                              | Jack 180 | RCP-5SPFFH-TC <b>8</b> 7001<br>RCP-5SPFFH-TS <b>8</b> 7001                        | RCP-5 <b>2</b> AMMM-TLM7***<br>RCP-5 <b>2</b> AMMM-TRM7***                              | RCP5UM-RCP5UM-TL***<br>RCP5UM-RCP5UM-TR*** | RCP-00AMMA-TLM7001<br>RCP-00BMMS-TLM7001                                            |
|                                                                                                                                      | Jack 90  | RCP-5SPFFV-TC <b>8</b> 7001<br>RCP-5SPFFV-TS <b>8</b> 7001                        |                                                                                         | RCP5UM-UPG06M-TL***<br>RCP5UM-UPG06M-TR*** |                                                                                     |

\*Refer to P8-5 for ordering information.

## Large Size 1"-20 UNEF > Receptacle and Mating Pair

|                                                                                                                               |          |                                                                                                     |                                                                                                                 |                                                                                    |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• Female Connector (Housing)</li><li>• Female Contacts</li><li>• Screw Thread</li></ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>  |                                                                                    | <b>Field Installable</b>                                                            |
|                                                                                                                               |          |                    |                                |  |  |
|                                                                                                                               |          | <b>8</b> Choose unmated (U) or mated (M) waterproof                                                 | <b>2</b> Choose shielded (5S) or unshielded (5U)<br>*** Choose the cable length:01-99m                          | *** Choose the cable length:01-99m                                                 |                                                                                     |
| Cat. 5e                                                                                                                       |          | Female Connector (F)<br>Female Contacts (F)                                                         | Male Connector (M)<br>Male Contacts (M)                                                                         | Male Connector (M)<br>Male Contacts (M)                                            | Male Connector (M)<br>Male Contacts (M)                                             |
| Plastic                                                                                                                       | Jack 180 | RDP-5SPFFH-SC <b>8</b> 7001<br>RDP-5SPFFH-SS <b>8</b> 7001                                          | RDP-5 <b>2</b> AMMM-SLM7***<br>RDP-5 <b>2</b> AMMM-SRM7***                                                      | RDP5UM-RDP5UM-SL***<br>RDP5UM-RDP5UM-SR***                                         | RDP-00AMMA-SLM7001<br>RDP-00BMMS-SLM7001                                            |
|                                                                                                                               | Jack 90  | RDP-5SPFFV-SC <b>8</b> 7001<br>RDP-5SPFFV-SS <b>8</b> 7001                                          |                                                                                                                 | RDP5UM-UPG06M-SL***<br>RDP5UM-UPG06M-SR***                                         |                                                                                     |
| Metal                                                                                                                         | Jack 180 | RDM-5SPFFH-SC <b>8</b> 7001<br>RDM-5SPFFH-SS <b>8</b> 7001                                          | RDM-5 <b>2</b> AMMM-SLM7***<br>RDM-5 <b>2</b> AMMM-SRM7***                                                      | -                                                                                  | -                                                                                   |
|                                                                                                                               | Jack 90  | RDM-5SPFFV-SC <b>8</b> 7001<br>RDM-5SPFFV-SS <b>8</b> 7001                                          |                                                                                                                 |                                                                                    |                                                                                     |

\*Refer to P8-5 for ordering information.

**Large Size 1"-20 UNEF**

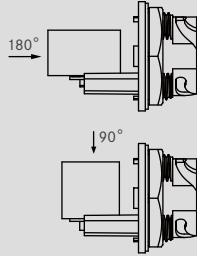
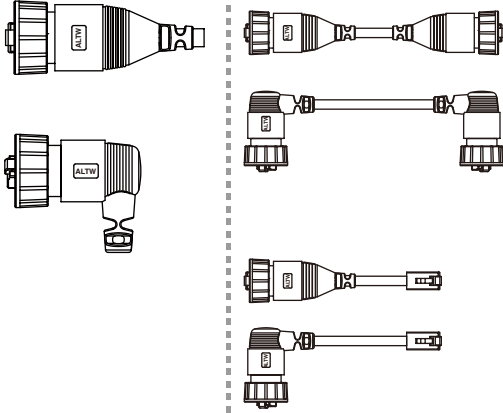
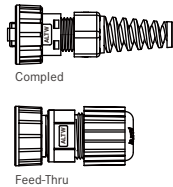
Receptacle and Mating Pair

3 Points Lock Bayonet

**IP 67** <sup>9</sup>

Receptacle | Unmated & Mated  
 Overmolded with Cable | Mated  
 Field Installable | Mated

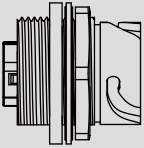
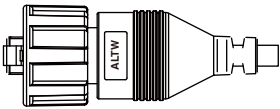
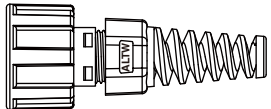
## Large Size 1"-20 UNEF > Receptacle and Mating Pair

|         |          | Receptacle                                                                                                                                                                                                             | Overmolded with Cable                                                                   |                                            | Field Installable                                                                   |
|---------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------|
|         |          | <ul style="list-style-type: none"> <li>Female Connector (Housing)</li> <li>Female Contacts</li> <li>3 Points Lock Bayonet</li> </ul>  |       |                                            |  |
|         |          | <b>8</b> Choose unmated (U) or mated (M) waterproof                                                                                                                                                                    | <b>2</b> Choose shielded (5S) or unshielded (5U)<br>*** Choose the cable length: 01-99m |                                            | <b>5</b> Choose Compled (A) or Feed-Thru (S)                                        |
| Cat. 5e |          | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                            | Male Connector (M)<br>Male Contacts (M)                                                 | Male Connector (M)<br>Male Contacts (M)    | Male Connector (M)<br>Male Contacts (M)                                             |
| Plastic | Jack 180 | RDP-5SPFFH-TC <b>8</b> 7001<br>RDP-5SPFFH-TS <b>8</b> 7001                                                                                                                                                             | RDP-5 <b>2</b> AMMM-TLM7***<br>RDP-5 <b>2</b> AMMM-TRM7***                              | RDP5UM-RDP5UM-TL***<br>RDP5UM-RDP5UM-TR*** | RDP-00AMM <b>5</b> -TLM7001<br>RDP-00BMMS-TLM7001                                   |
|         | Jack 90  | RDP-5SPFFV-TC <b>8</b> 7001<br>RDP-5SPFFV-TS <b>8</b> 7001                                                                                                                                                             |                                                                                         | RDP5UM-UPG06M-TL***<br>RDP5UM-UPG06M-TR*** |                                                                                     |

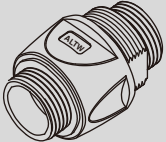
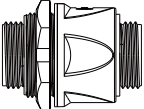
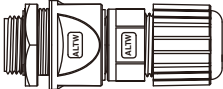
\*Refer to P8-5 for ordering information.



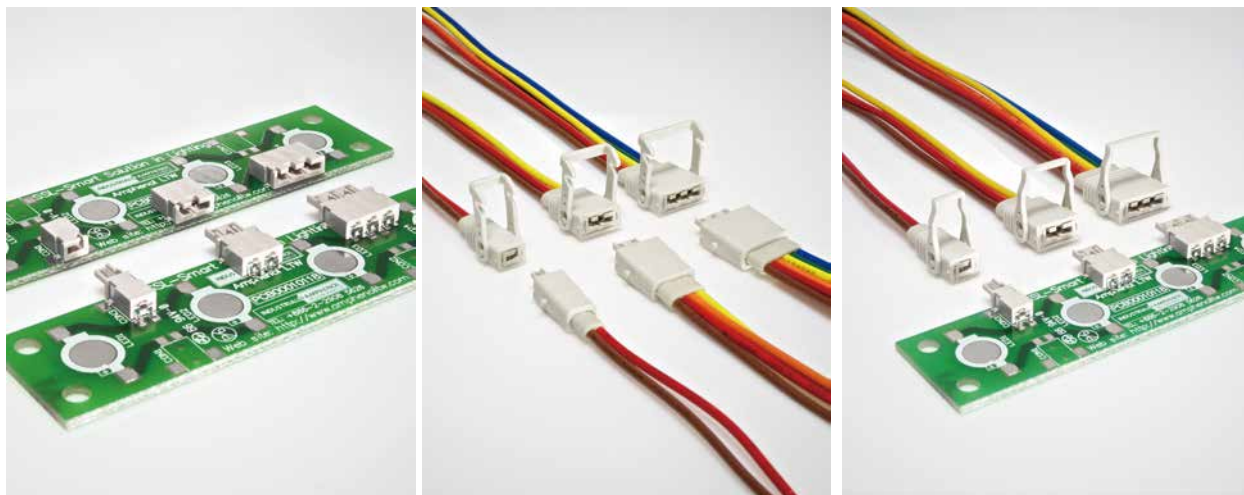
## ODVA > Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>Female Connector</li> <li>Female Contacts</li> <li>3 Points Lock Bayonet</li> <li>ODVA</li> </ul> | Receptacle                                                                                                                                                                                                                                            | Overmolded with Cable                                                                                                         | Field Installable                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|                                                                                                                                          |  <p> <b>3</b> Choose the Back shell position:<br/>Front (P) or Rear (R) or Double (D) Mounting<br/> <b>8</b> Choose unmated (U) or mated (M) waterproof         </p> |  <p>*** Choose the cable length:0.1-99m</p> |  <p>Compled</p> |
| ODVA (ROP)                                                                                                                               | Female Connector (F)<br>Female Contacts (F)                                                                                                                                                                                                           | Male Connector (M)<br>Male Contacts (M)                                                                                       | Male Connector (M)<br>Male Contacts (M)                                                            |
| Jack 180°                                                                                                                                | ROP-5S <b>3</b> FFH-TC <b>8</b> 7001<br>ROP-5S <b>3</b> FFH-TS <b>8</b> 7001                                                                                                                                                                          | ROP-5SAMMM-TLM7***                                                                                                            | ROP-00AMMA-TLM7001                                                                                 |

## I Adaptor

| <ul style="list-style-type: none"> <li>Shielded RJ45</li> <li>Front Fastened</li> <li>Screw Thread</li> <li>Backshell: Circular</li> <li>Panel Thickness Max: 3.5mm</li> <li>IP 67</li> </ul>   <p>Upon request</p> |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                           | Type 1<br>Receptacle                                                                | Type 2<br>Field Installable                                                         | Type 3<br>Field Installable (In-line)                                                |
|                                                                                                                                                                                                                                                                                                                                                                                           | RDP-00PFFH-SCU7001                                                                  | RDP-00DFFA-SLM7001                                                                  | RDP-00BFFA-SLM7001                                                                   |

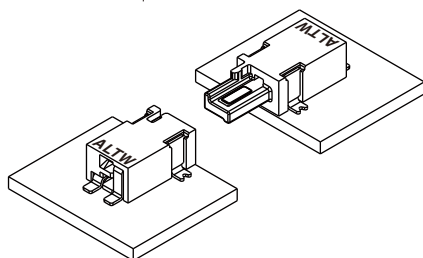
## SSL Connector



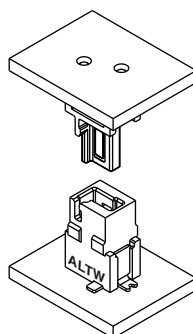
## Range Overview

### ▮ PCB Mount to PCB Mount

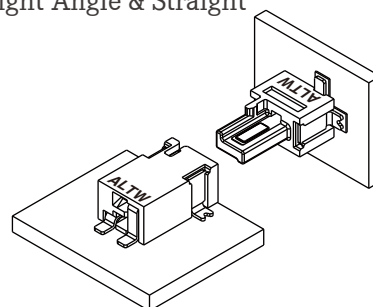
Right Angle



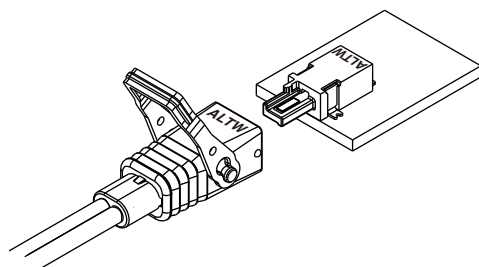
Straight



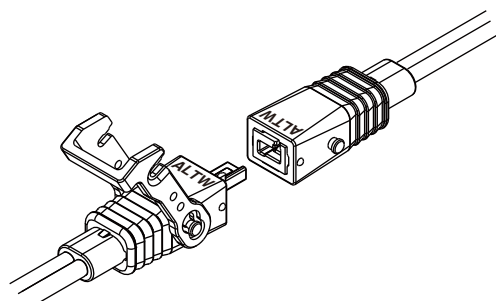
Right Angle & Straight



### ▮ PCB Mount to Wire



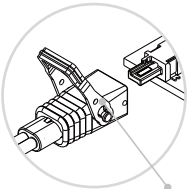
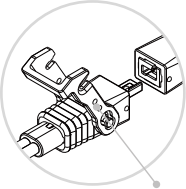
### ▮ Wire to Wire



# Specification

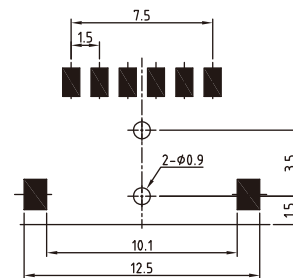
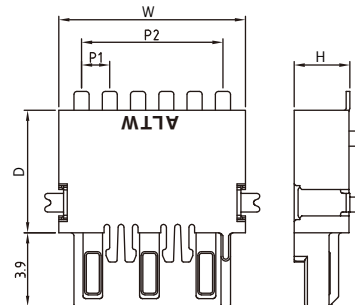
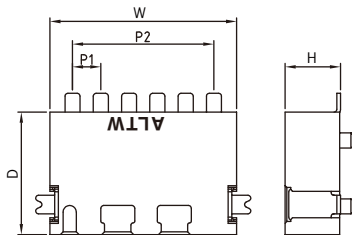
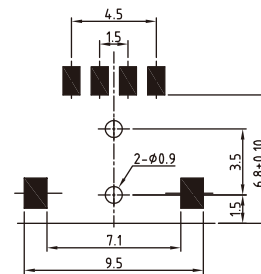
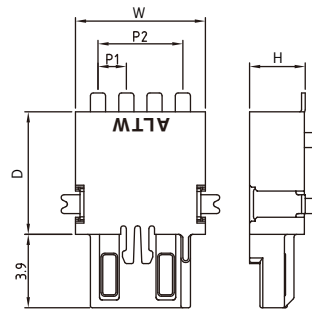
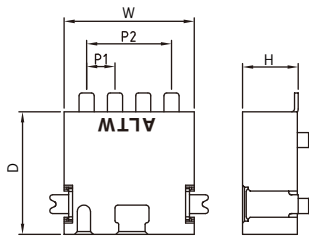
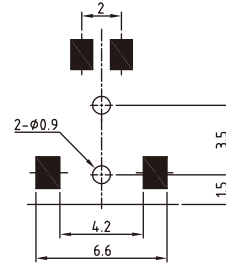
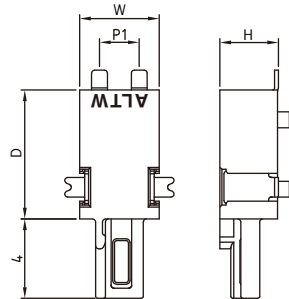
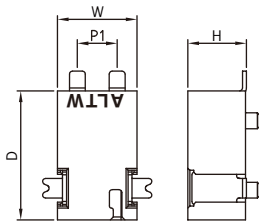
|                              |                                                                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | SSL 1.1 DC Connector (PCB Connector & Cable)                                                                                                                                                                               |
| <b>Description</b>           | PCB to PCB<br>PCB to Wire<br>Wire to Wire                                                                                                                                                                                  |
| <b>Current Rating / Data</b> | 3A per Pin<br>2, 4 & 6P                                                                                                                                                                                                    |
| <b>Voltage Rating</b>        | Max100 VAC / VDC                                                                                                                                                                                                           |
| <b>Material</b>              | Contact: Copper Alloy, Tin over Nickel<br>Housing: LCP, UL 94V-0 Rated<br>Hood: Nylon (PA66), UL 94V-0 Rated<br>Lock: Nylon (PA66), UL 94V-0 Rated<br>SR: PP, UL 94V-0 Rated.<br>UL recognized wire & flat cable available |
| <b>Temperature Range</b>     | -40°C ~ +100°C                                                                                                                                                                                                             |
| <b>Contact Resistance</b>    | $\leq 20\text{m}\Omega$                                                                                                                                                                                                    |
| <b>Insulation Resistance</b> | $\geq 1000\text{m}\Omega$ at 250VDC                                                                                                                                                                                        |
| <b>Durability</b>            | 100 cycles                                                                                                                                                                                                                 |
| <b>Breakdown Voltage</b>     | 1200 V AC                                                                                                                                                                                                                  |
| <b>More to know</b>          | Standard cable length: every 10cm                                                                                                                                                                                          |

# Ordering Information

| 1                                                                                                                                                                  | 2 | 3                                                                                                                                                                                                              | 4 | 5                                                                                    | 6 | 7 | 8 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|---|---|---|
| <b>Connector Series</b><br>(11) SSL 1.1 None Waterproof Series                                                                                                     |   |                                                                                                                                                                                                                |   |                                                                                      |   |   |   |
| <b>Connector (Housing) Gender</b><br>(J) Jack (P) Plug                                                                                                             |   |                                                                                                                                                                                                                |   |                                                                                      |   |   |   |
| <b>Number of Contacts</b><br>2,4, 6 contacts<br>EX. (2) = 2 Contacts                                                                                               |   |                                                                                                                                                                                                                |   |                                                                                      |   |   |   |
| <b>Connector Type</b><br>> For PCB Mount Type<br>(A) SMT Board Straight with Post<br>(C) SMT Board Right Angle with Post<br>(D) SMT Board Right Angle without Post |   | > For Wire Assembly<br>(L) Wire Assembly, Straight, With SR                                                                                                                                                    |   |                                                                                      |   |   |   |
| <b>Wires Assembly Options</b><br>> For PCB Mount Type<br>(00) For PCB Mount Type                                                                                   |   | > For Wire Assembly<br>(2J) 2-End Jack Connector<br>(2P) 2-End Plug Connector<br>(JP) End 1: Jack, End 2: Plug,<br>(JO) End 1: Jack, End 2: Open<br>(PO) End 1: Plug, End 2: Open                              |   |                                                                                      |   |   |   |
| <b>Lock Option</b><br>(0) None (Without Lock)<br>(B) W2B Lock in End 1<br>(W) W2W Lock in End 1<br>(D) With Two W2B Lock                                           |   | (T) With Two W2W Lock<br>(S) W2B Lock in End 1, W2W Lock in End 2                                                                                                                                              |   |                                                                                      |   |   |   |
|                                                                                                                                                                    |   |                                                                                                                             |   |  |   |   |   |
|                                                                                                                                                                    |   | Wire to Board Lock (W2B Lock)                                                                                                                                                                                  |   | Wire to Wire Lock (W2W Lock)                                                         |   |   |   |
| <b>Wire Size</b><br>> For PCB Mount Type<br>(00) Not Applicable for SMT Board                                                                                      |   | > For Wire Assembly<br>(22) 22 AWG                                                                                                                                                                             |   |                                                                                      |   |   |   |
| Wire Assembly / Wires Type                                                                                                                                         |   |                                                                                                                                                                                                                |   |                                                                                      |   |   |   |
| > For PCB Mount Type<br>(001), (002).....<br>Without Wire : Different Versions                                                                                     |   | > For Wire Assembly<br>(□)+(■) : Wire Type + Length<br>EX. (A01) = Wire + 10cm<br>(□) : Wire Type<br>(A) UL recognized wire<br>(D) UL recognized flat cable<br>(■) : Length<br>From 10cm~990cm EX. (01) = 10cm |   |                                                                                      |   |   |   |

## Physical Dimension

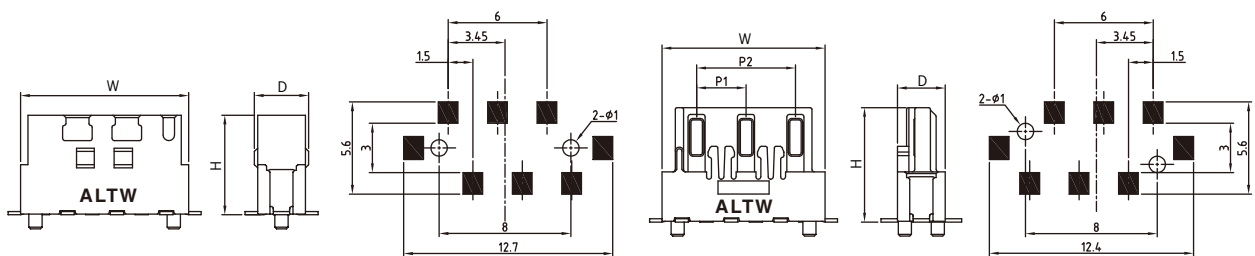
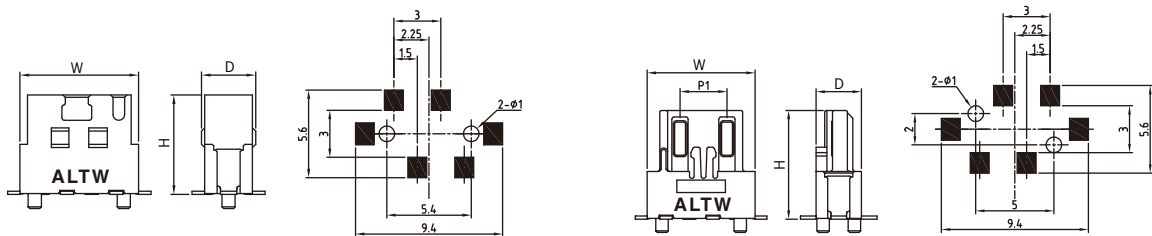
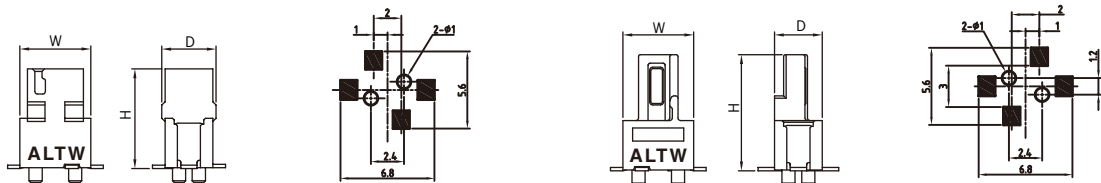
### └ PCB Mount to PCB Mount > Right Angle



|    | P1<br>Pitch | P2<br>TTL Pitch | D<br>Depth | W<br>Width | H<br>Height |
|----|-------------|-----------------|------------|------------|-------------|
| 2P | 2.0         | -               | 6.5        | 4.0        | 3.0         |
| 4P | 1.5         | 4.5             | 6.5        | 6.9        | 3.0         |
| 6P | 1.5         | 7.5             | 6.5        | 9.9        | 3.0         |

Dimensions are shown in millimeters

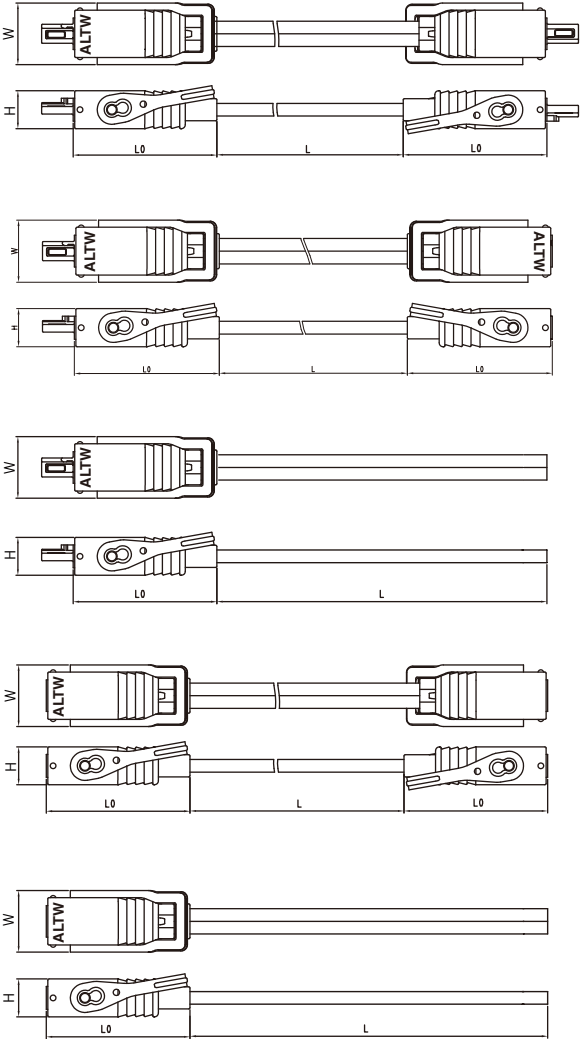
## ▮ PCB Mount to PCB Mount > Straight



|    | P1<br>Pitch | P2<br>TTL Pitch | D<br>Depth             | W<br>Width              | H<br>Height            |
|----|-------------|-----------------|------------------------|-------------------------|------------------------|
| 2P | -           | -               | Jack: 3.3<br>Plug: 2.9 | Jack: 4.3<br>Plug: 4.3  | Jack: 6.0<br>Plug: 7.0 |
| 4P | 3.0         | -               | Jack: 3.3<br>Plug: 2.9 | Jack: 7.2<br>Plug: 6.9  | Jack: 6.0<br>Plug: 7.0 |
| 6P | 3.0         | 6.0             | Jack: 3.3<br>Plug: 2.9 | Jack: 10.2<br>Plug: 9.9 | Jack: 6.0<br>Plug: 7.0 |

Dimensions are shown in millimeters

Wire Assembly

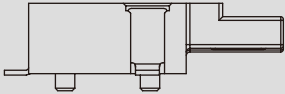
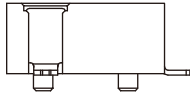


|    | L0   | H   | W    | Cable Length (L)                                                              |
|----|------|-----|------|-------------------------------------------------------------------------------|
| 2P | 16.2 | 4.8 | 7.8  | **Wire & flat cable length available from 10cm to 990cm in multiples of 10cm. |
| 4P | 16.2 | 4.8 | 11.2 |                                                                               |
| 6P | 16.2 | 4.8 | 14.2 |                                                                               |

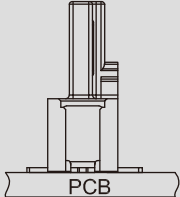
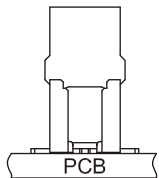
\* Design and specification are subject to change without notice.

## Find Our Standard Products

### ▾ PCB Mount to PCB Mount > Right Angle

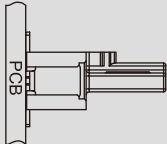
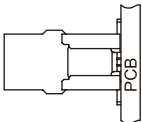
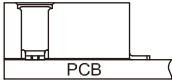
|    |  |                                                                                   |  |                                                                                     |  |
|----|--|-----------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
|    |  |  |  |  |  |
|    |  | ④ PCB Mount (Right Angle) ; With post (C) or without post (D)                     |  | ④ PCB Mount (Right Angle) ; With post (C) or without post (D)                       |  |
|    |  | Plug                                                                              |  | Jack                                                                                |  |
| 2P |  | SSL11-P 2 ④ 00-000001                                                             |  | SSL11-J 2 ④ 00-000001                                                               |  |
| 4P |  | SSL11-P 4 ④ 00-000001                                                             |  | SSL11-J 4 ④ 00-000001                                                               |  |
| 6P |  | SSL11-P 6 ④ 00-000001                                                             |  | SSL11-J 6 ④ 00-000001                                                               |  |

### ▾ PCB Mount to PCB Mount > Straight

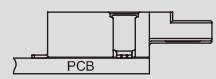
|    |  |                                                                                    |  |                                                                                      |  |
|----|--|------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--|
|    |  |  |  |  |  |
|    |  | ④ PCB Mount (Straight) ; With post (A) or without post (B)                         |  | ④ PCB Mount (Straight) ; With post (A) or without post (B)                           |  |
|    |  | Plug                                                                               |  | Jack                                                                                 |  |
| 2P |  | SSL11-P2 ④ 00-000001                                                               |  | SSL11-J 2 ④ 00-000001                                                                |  |
| 4P |  | SSL11-P4 ④ 00-000001                                                               |  | SSL11-J 4 ④ 00-000001                                                                |  |
| 6P |  | SSL11-P6 ④ 00-000001                                                               |  | SSL11-J 6 ④ 00-000001                                                                |  |



## PCB Mount to PCB Mount > Right Angle & Straight

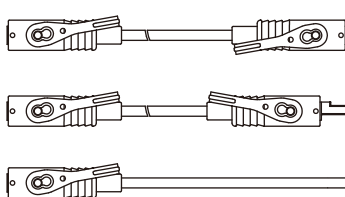
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|
| <div><div><div><p>PCB</p><p>* Plug (Right Angle)</p></div><div><p>PCB</p><p>* Plug (Straight)</p></div></div><div><p>④ PCB Mount (Right Angle) ; With post (C) or without post (D)<br/>PCB Mount (Straight) ; With post (A) or without post (B)</p></div><div><div><p>PCB</p><p>* Jack (Straight)</p></div><div><p>PCB</p><p>* Plug (Right Angle)</p></div></div></div> |                       |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Plug                  | Jack                  |
| 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SSL11-P 2 ④ 00-000001 | SSL11-J 2 ④ 00-000001 |
| 4P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SSL11-P 4 ④ 00-000001 | SSL11-J 4 ④ 00-000001 |
| 6P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SSL11-P 6 ④ 00-000001 | SSL11-J 6 ④ 00-000001 |

## PCB Mount (Plug) to Wire



PCB

④ PCB Mount (Right Angle) ; With post (C) or without post (D)

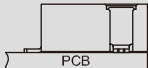
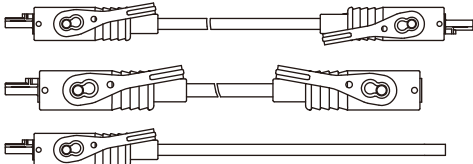


\*\*Wire & flat cable length available from 10cm to 990cm in multiples of 10cm. EX. (01) = 10cm

|            | Mount Type         |                      | End 1 + End 2        | Cable Type         | Part Number        |                    |
|------------|--------------------|----------------------|----------------------|--------------------|--------------------|--------------------|
| 2P         | Right Angle Plug   | SSL11-P2 ④ 00-000001 | Jack + Jack          | Flat Cable         | SSL11-J2L2J-D22D** |                    |
|            |                    |                      | Jack + Plug          | Flat Cable         | SSL11-P2LJP-D22D** |                    |
|            |                    |                      | Jack + Open End      | Wire               | SSL11-J2LJ0-B22A** |                    |
| Flat Cable |                    | SSL11-J2LJ0-B22D**   |                      |                    |                    |                    |
| 4P         |                    | SSL11-P4 ④ 00-000001 | Jack + Jack          | Flat Cable         | SSL11-J4L2J-D22D** |                    |
|            |                    |                      | Jack + Plug          | Flat Cable         | SSL11-P4LJP-D22D** |                    |
|            |                    |                      | Jack + Open End      | Wire               | SSL11-J4LJ0-B22A** |                    |
| Flat Cable |                    |                      |                      | SSL11-J4LJ0-B22D** |                    |                    |
| 6P         |                    |                      | SSL11-P6 ④ 00-000001 | Jack + Jack        | Flat Cable         | SSL11-J6L2J-D22D** |
|            |                    |                      |                      | Jack + Plug        | Flat Cable         | SSL11-P6LJP-D22D** |
|            |                    | Jack + Open End      |                      | Wire               | SSL11-J6LJ0-B22A** |                    |
| Flat Cable | SSL11-J6LJ0-B22D** |                      |                      |                    |                    |                    |

\* Design and specification are subject to change without notice.

## ▾ PCB Mount (Jack) to Wire

|                                                                                                                                                                                            |                  |                             |                                                                                                                                                                                                                |            |                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| <div><p>PCB</p></div> <div><b>4</b> PCB Mount (Right Angle) ; With post (C)<br/>or without post (D)</div> |                  |                             | <div></div> <div>**Wire &amp; flat cable length available from 10cm to 990cm<br/>in multiples of 10cm. EX. (01) = 10cm</div> |            |                    |
|                                                                                                                                                                                            | Mount Type       | Jack                        | End 1 + End 2                                                                                                                                                                                                  | Cable Type | Part Number        |
| 2P                                                                                                                                                                                         | Right Angle Jack | SSL11-J2 <b>4</b> 00-000001 | Plug + Plug                                                                                                                                                                                                    | Flat Cable | SSL11-P2L2P-D22D** |
|                                                                                                                                                                                            |                  |                             | Plug + Jack                                                                                                                                                                                                    | Flat Cable | SSL11-P2LJP-D22D** |
|                                                                                                                                                                                            |                  |                             | Plug + Open End                                                                                                                                                                                                | Wire       | SSL11-P2LP0-B22A** |
| Flat Cable                                                                                                                                                                                 |                  | SSL11-P2LP0-B22D**          |                                                                                                                                                                                                                |            |                    |
| 4P                                                                                                                                                                                         |                  | SSL11-J4 <b>4</b> 00-000001 | Plug + Plug                                                                                                                                                                                                    | Flat Cable | SSL11-P4L2P-D22D** |
|                                                                                                                                                                                            |                  |                             | Plug + Jack                                                                                                                                                                                                    | Flat Cable | SSL11-P4LJP-D22D** |
|                                                                                                                                                                                            |                  |                             | Plug + Open End                                                                                                                                                                                                | Wire       | SSL11-P4LP0-B22A** |
| Flat Cable                                                                                                                                                                                 |                  | SSL11-P4LP0-B22D**          |                                                                                                                                                                                                                |            |                    |
| 6P                                                                                                                                                                                         |                  | SSL11-J6 <b>4</b> 00-000001 | Plug + Plug                                                                                                                                                                                                    | Flat Cable | SSL11-P6L2P-D22D** |
|                                                                                                                                                                                            |                  |                             | Plug + Jack                                                                                                                                                                                                    | Flat Cable | SSL11-P6LJP-D22D** |
|                                                                                                                                                                                            |                  |                             | Plug + Open End                                                                                                                                                                                                | Wire       | SSL11-P6LP0-B22A** |
| Flat Cable                                                                                                                                                                                 |                  | SSL11-P6LP0-B22D**          |                                                                                                                                                                                                                |            |                    |

## ▾ Wire to Wire

|    |            |                                                                                               |                                                                                               |
|----|------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|    |            |            |           |
|    |            | **Wire & flat cable length available from 10cm to 990cm in multiples of 10cm. EX. (01) = 10cm | **Wire & flat cable length available from 10cm to 990cm in multiples of 10cm. EX. (01) = 10cm |
|    | Cable Type | Plug                                                                                          | Jack                                                                                          |
| 2P | Wire       | SSL11-P2LP0-W22A**                                                                            | SSL11-J2LJ0-022A**                                                                            |
|    | Flat Cable | SSL11-P2LP0-W22D**                                                                            | SSL11-J2LJ0-022D**                                                                            |
| 4P | Wire       | SSL11-P4LP0-W22A**                                                                            | SSL11-J4LJ0-022A**                                                                            |
|    | Flat Cable | SSL11-P4LP0-W22D**                                                                            | SSL11-J4LJ0-022D**                                                                            |
| 6P | Wire       | SSL11-P6LP0-W22A**                                                                            | SSL11-J6LJ0-022A**                                                                            |
|    | Flat Cable | SSL11-P6LP0-W22D**                                                                            | SSL11-J6LJ0-022D**                                                                            |

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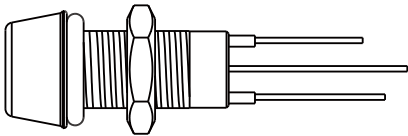


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# LED Indicator

# Range Overview

⌵ Receptacle



# Specification

|                   |                                                                                                                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identifications   | M8 LED (Plastic or Metal)                                                                                                                                                                                       |
| Description       | Receptacle with LED light                                                                                                                                                                                       |
| LED Size          | Metal LED: $\varnothing$ 3mm, $\varnothing$ 5mm<br>Plastic LED: $\varnothing$ 3mm                                                                                                                               |
| Material          | Connector Body:<br>Metal: Copper Alloy, Nickel Plated<br>Plastic: PC+ABS                                                                                                                                        |
| Waterproof Rating | IP67                                                                                                                                                                                                            |
| Temperature Range | Metal: -20°C ~ +105°C<br>Plastic: -20°C ~ +85°C                                                                                                                                                                 |
| Operating Voltage | 4V                                                                                                                                                                                                              |
| Light Color       | Red, Blue, Green, White, Yellow, Red / Green                                                                                                                                                                    |
| More to know      | Absolute Maximum Ratings at Ta=25°C<br>- Power Dissipation: 80~120mW Max<br>- Peak Forward Current: 100mA Max<br>- Continuous Forward Current: 20~35mA Max<br>- Lead Soldering Temperature: 260°C for 5 Seconds |

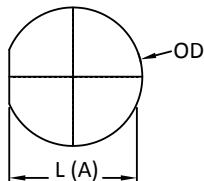
# Ordering Information

|                                                                                   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|----|
| <b>Specification</b><br>(L08) M8                                                  |   |   |   |   |   |   |   |   |   |    |
| <b>Number of LED</b><br>(01) 1 LED                                                |   |   |   |   |   |   |   |   |   |    |
| <b>Light Color Style</b><br>(R) Red<br>(B) Blue<br>(G) Green                      |   |   |   |   |   |   |   |   |   |    |
| (W) White<br>(A) Red/Green<br>(Y) Yellow                                          |   |   |   |   |   |   |   |   |   |    |
| <b>LED Size</b><br>(A) Ø3mm                                                       |   |   |   |   |   |   |   |   |   |    |
| (B) Ø5mm                                                                          |   |   |   |   |   |   |   |   |   |    |
| <b>Electrical Type</b><br>(A) DC 4V                                               |   |   |   |   |   |   |   |   |   |    |
| <b>Assemble Style</b><br>> For Receptacle<br>(S) Solder Type<br>(P) 180° PCB Type |   |   |   |   |   |   |   |   |   |    |
| <b>Housing Material</b><br>(M) Metal                                              |   |   |   |   |   |   |   |   |   |    |
| (P) Plastic                                                                       |   |   |   |   |   |   |   |   |   |    |
| <b>Backshell</b><br>> For Receptacle<br>(R) Circular / Rear Fastened              |   |   |   |   |   |   |   |   |   |    |
| <b>Waterproof Rating</b><br>(7) IP 67                                             |   |   |   |   |   |   |   |   |   |    |
| <b>More Information</b><br>> For Receptacle<br>(001) Without Cable                |   |   |   |   |   |   |   |   |   |    |

## Physical Dimension

### Receptacle

Panel Cut-Out

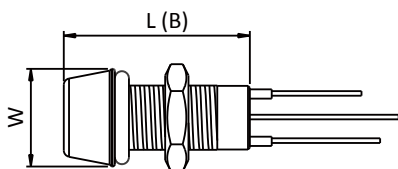


| Size \ Dimension           | L (A) | OD  | L (B) | W    |
|----------------------------|-------|-----|-------|------|
| L08 - $\phi$ 3.0 (Plastic) | 7.1   | 8.2 | 21.0  | 10.5 |
| L08 - $\phi$ 3.0 (Metal)   | 7.1   | 8.2 | 20.0  | 10.5 |
| L08 - $\phi$ 5.0 (Metal)   | 7.1   | 8.2 | 20.0  | 10.5 |

\* Maximum Panel Thickness: 6.5mm

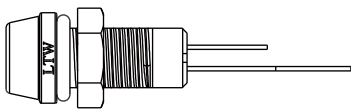
Dimensions are shown in millimeters

Connector Dimension

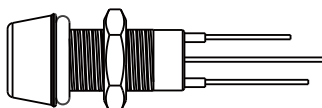


## Find Our Standard Products

### Receptacle

|                      |                                                                                                                                                                                                                                                                               |                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| • Plastic connectors | <b>Receptacle</b><br> <p><b>3</b> Choose the color of LED:<br/>- Mono-color: Red (R) / Blue (B) / Green (G) / White (W) / Yellow (Y)<br/>The size of plastic LED: <math>\phi</math>3mm</p> |                             |
|                      | LED M8 Plastic                                                                                                                                                                                                                                                                | L08-01 <b>3</b> AAS-PR700 1 |

### Receptacle

|                    |                                                                                                                                                                                                                                                                                                                                                               |                                     |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| • Metal connectors | <b>Receptacle</b><br> <p><b>3</b> Choose the color of LED:<br/>- Mono-color: Red (R) / Blue (B) / Green (G) / White (W) / Yellow (Y)<br/>- Multi-color: Red &amp; Green (A)<br/><b>4</b> Choose the size of LED (<math>\phi</math>3mm (A) or <math>\phi</math>5mm (B))</p> |                                     |
|                    | LED M8 Metal                                                                                                                                                                                                                                                                                                                                                  | L08-01 <b>3</b> <b>4</b> AS-MR700 1 |

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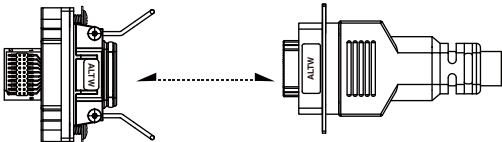
# HDMI Connector



## Range Overview

### Receptacle to Overmolded with Cable

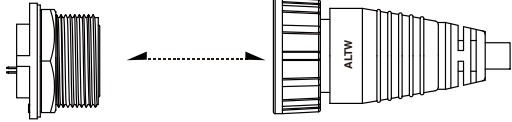
Rectangle Type



Receptacle

Overmolded with Cable

Circular Type



Receptacle

Overmolded with Cable

### Accessories



Waterproof Cap  
See page 21-17



Waterproof Cap  
See page 21-17

## Specification

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| Identifications       | HDMI connector                                                            |
| Description           | Receptacle<br>Overmolded with Cable                                       |
| Current Rating / Data | 0.5A                                                                      |
| Material              | Contacts: Phospor Bronze<br>Connector Body (Housing): PBT<br>Shell: Brass |
| Waterproof Rating     | IP67 (Mated Waterproof)                                                   |
| Temperature Range     | Receptacle: -20℃~80℃<br>Overmolded with Cable: -20℃~80℃                   |
| Contact Resistance    | ≤ 20mΩ                                                                    |
| Insulation Resistance | ≥ 100mΩ at DC500V                                                         |
| More to know          | Standard Cable Length: 01~05 M                                            |



[illegible]

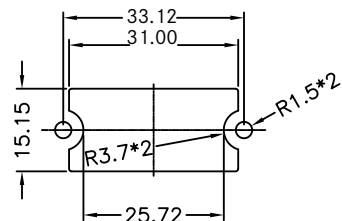
Innovation in Waterproof Solution 11-2

## Physical Dimension

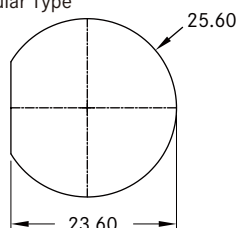
### Receptacle

Panel Cut-Out

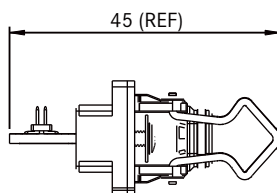
Rectangle Type



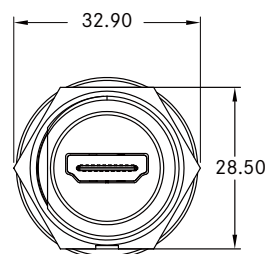
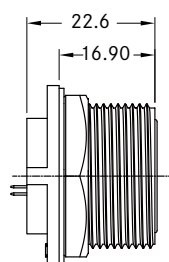
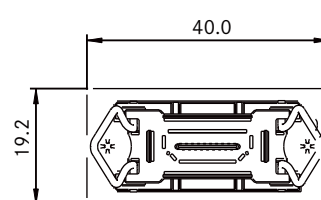
Circular Type



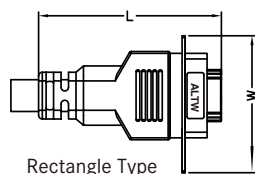
Connector Dimension



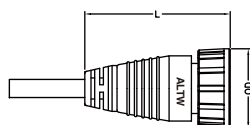
Connector Dimension



### Overmolded with Cable



Rectangle Type

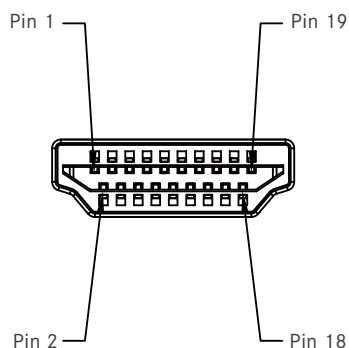


Circular Type

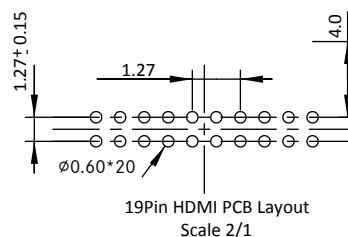
| Dimension        | L    | W / OD |
|------------------|------|--------|
| Current Rating   |      |        |
| Connector Gender | Male |        |
| Rectangle Type   | 48.1 | 32.0   |
| Circular Type    | 58.7 | 32.0   |

Dimensions are shown in millimeters

## Contact Configuration



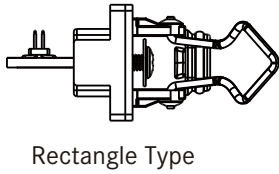
PCB Layoyt



\* This only show contact configuration of Jack as your reference.

## Product Features

### Receptacle



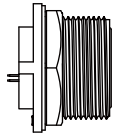
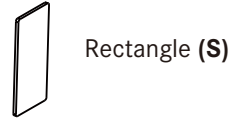
#### Mating Style 7



#### Connector Body(Style) 3



#### Backshell 8



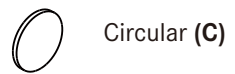
#### Mating Style 7



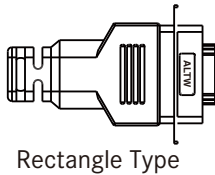
#### Connector Body(Style) 3



#### Backshell 8



### Overmolded with Cable



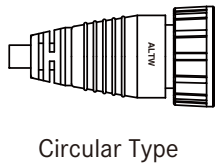
#### Mating Style 7



#### Connector Body(Style) 3



#### Backshell 8



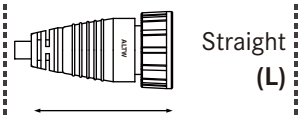
#### Mating Style 7



#### Connector Body(Style) 3



#### Backshell 8



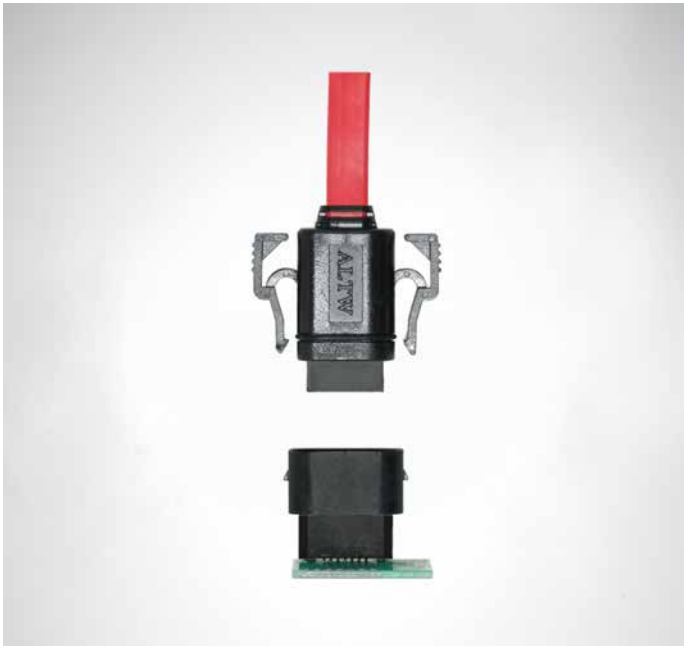
## Find Our Standard Products

### Receptacle and Mating Pair

|                                                                                                                                                    | Receptacle                                  | Overmolded with Cable                                                                                         | Field Installable                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Female Contacts</li> <li>• Latch</li> <li>• Screw Thread</li> </ul> | <p>Rectangle Type</p> <p>Circular Type</p>  | <p>Rectangle Type</p> <p>Circular Type</p> <p>** Choose UL20276 cable and select cable length from 01~05m</p> |                                         |
| Connector Style                                                                                                                                    | Female Connector (F)<br>Female Contacts (F) | Male Connector (M)<br>Male Contacts (M)                                                                       | Male Connector (M)<br>Male Contacts (M) |
| Rectangle Type                                                                                                                                     | HJ-19PFFR-QS7001                            | HP-19AMMM-QL7A**                                                                                              | -                                       |
| Circular Type                                                                                                                                      | HJ-19PMFP-SC7001                            | HP-19AFMM-SL7A**                                                                                              | -                                       |

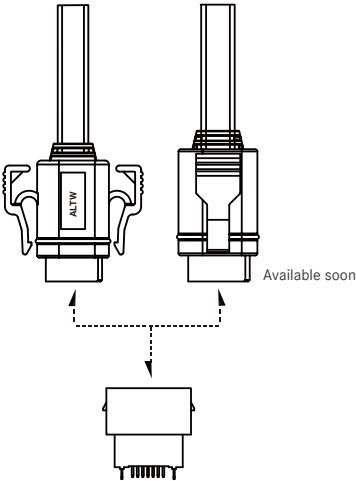
\* Design and specification are subject to change without notice.

# Sata Connector



## Range Overview

Receptacle to Overmolded with Cable



## Specification

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| Identifications       | SATA II connector                                                          |
| Description           | PCB to Wire                                                                |
| Current Rating        | 1.5 A                                                                      |
| Material              | Contacts: Copper Alloy, Gold Plated<br>Connector Body (Housing): LCP / PBT |
| Waterproof Rating     | IP67                                                                       |
| Temperature Range     | Receptacle: -20°C~80°C<br>Overmolded with Cable: -20°C~80°C                |
| Contact Resistance    | ≤ 30mΩ                                                                     |
| Insulation Resistance | ≥ 1000mΩ at DC500V                                                         |
| Durability            | 500 cycles                                                                 |
| More to know          | SATA III (upon request)                                                    |

# Ordering Information

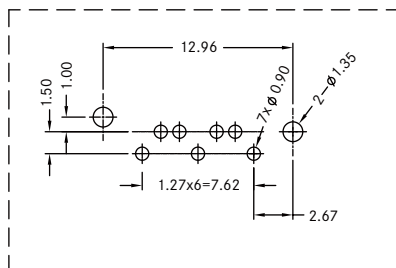
| 1                                                                                           | 2 | 3 | 4 | 5 | 6 | 7 |
|---------------------------------------------------------------------------------------------|---|---|---|---|---|---|
| <b>Specification</b>                                                                        |   |   |   |   |   |   |
| (SA7) SATA 7 Pin Type                                                                       |   |   |   |   |   |   |
| <b>Type</b>                                                                                 |   |   |   |   |   |   |
| (2) SATA II * SATA III upon request                                                         |   |   |   |   |   |   |
| <b>Connector (Housing) Gender</b>                                                           |   |   |   |   |   |   |
| <div> <div>&gt; For Receptacle / PCB</div> <div>&gt; For Overmolded with Cable</div> </div> |   |   |   |   |   |   |
| (P) Female (Socket) (A) Male (Plug)                                                         |   |   |   |   |   |   |
| <b>Connector Body</b>                                                                       |   |   |   |   |   |   |
| <div> <div>&gt; For Receptacle / PCB</div> <div>&gt; For Overmolded with Cable</div> </div> |   |   |   |   |   |   |
| (S) SMD (L) Cable Latch (Double)                                                            |   |   |   |   |   |   |
| (D) DIP (P) Cable Latch (Single)                                                            |   |   |   |   |   |   |
| <b>Board Lock / Cable Type</b>                                                              |   |   |   |   |   |   |
| <div> <div>&gt; For Receptacle / PCB</div> <div>&gt; For Overmolded with Cable</div> </div> |   |   |   |   |   |   |
| (TA) Flat Board Lock 2.6mm (DU) 2 End Cable Type                                            |   |   |   |   |   |   |
| (TB) Flat Board Lock 1.6mm (SN) 1 End Cable Type                                            |   |   |   |   |   |   |
| (FA) Harpoon Board Lock 2.6mm                                                               |   |   |   |   |   |   |
| (FB) Harpoon Board Lock 3.2mm                                                               |   |   |   |   |   |   |
| <b>Waterproof Rating</b>                                                                    |   |   |   |   |   |   |
| (7) IP 67                                                                                   |   |   |   |   |   |   |
| <b>More Information</b>                                                                     |   |   |   |   |   |   |
| <div> <div>&gt; For Receptacle</div> <div>&gt; For Overmolded with Cable</div> </div>       |   |   |   |   |   |   |
| (001) Without Cable (A01) 100MM                                                             |   |   |   |   |   |   |
| (A05) 500MM                                                                                 |   |   |   |   |   |   |

\* Design and specification are subject to change without notice.

## Physical Dimension

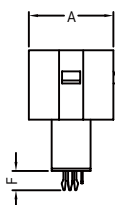
### Receptacle

DIP Layout

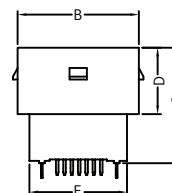
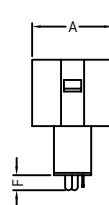


Board Lock Type

Harpoon



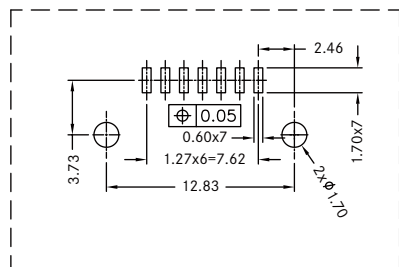
Flate



| A    | B    | C    | D    | E    | F   |
|------|------|------|------|------|-----|
| 14.0 | 21.0 | 20.0 | 11.5 | 16.9 | 2.6 |
|      |      |      |      |      | 3.2 |
| 14.0 | 21.0 | 20.0 | 11.5 | 16.9 | 2.6 |
|      |      |      |      |      | 1.6 |

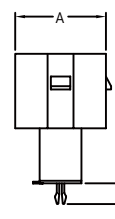
### Receptacle

SMT Layout

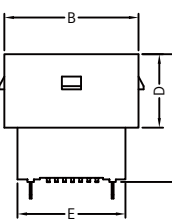
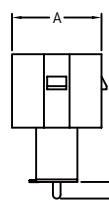


Board Lock Type

Harpoon



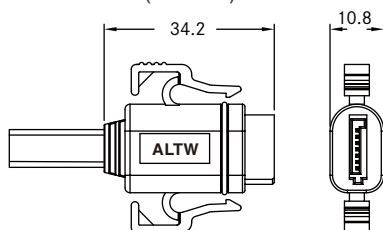
Flate



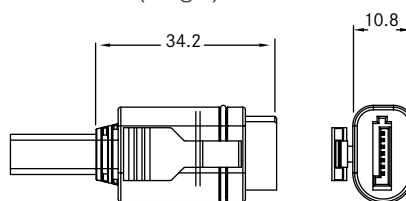
| A    | B    | C    | D    | E    | F   |
|------|------|------|------|------|-----|
| 14.0 | 21.0 | 20.0 | 11.5 | 16.9 | 2.6 |
|      |      |      |      |      | 3.2 |
| 14.0 | 21.0 | 20.0 | 11.5 | 16.9 | 2.6 |
|      |      |      |      |      | 1.6 |

### Overmolded with Cable

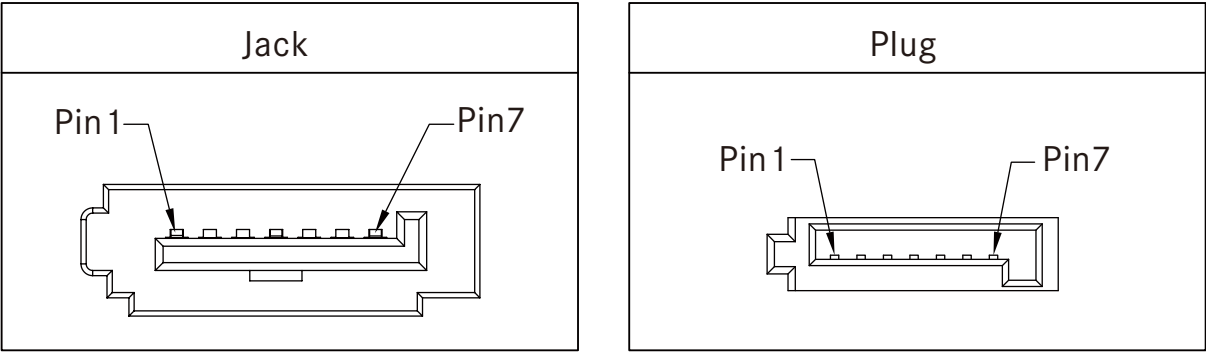
Cable Latch (Double)



Cable Latch (Single)

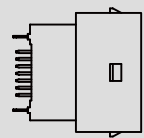
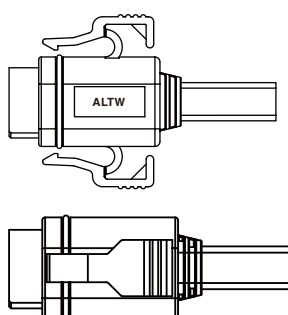


# Contact Configuration



# Find Our Standard Products

## Receptacle and Mating Pair

|         |                                                                                                                                              |                                                                                                           |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| SATA II | Receptacle                                                 | Overmolded with Cable  |
|         | Jack                                                                                                                                         | Plug                                                                                                      |
|         | SA7-2PDFA-7001<br>SA7-2PDFB-7001<br>SA7-2PDTA-7001<br>SA7-2PDTB-7001<br>SA7-2PSFA-7001<br>SA7-2PSFB-7001<br>SA7-2PSTA-7001<br>SA7-2PSTB-7001 | SA7-2ALDU-7AXX<br>SA7-2APDU-7AXX *Upon request                                                            |

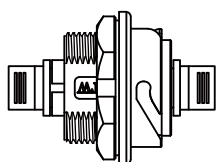
\* Design and specification are subject to change without notice.

# Fiber Optic Connector

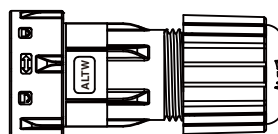


## Range Overview

### ⌵ Receptacle to Field Installable

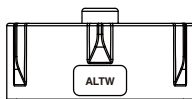


Receptacle



Field Installable

### ⌵ Accessories



Waterproof Cap  
See page 21-18



## Specification

|                          |                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>   | LC Type<br>SC Type                                                                                                        |
| <b>Description</b>       | Receptacle<br>Field Installable                                                                                           |
| <b>Material</b>          | Receptacle: Mousing: PPO<br>Screw Nut: Nylon<br>Field Installable: Clamp Ring: PPO<br>Lock Nut: PPO<br>Sealing Nut: Nylon |
| <b>Waterproof Rating</b> | IP67                                                                                                                      |
| <b>Temperature Range</b> | Receptacle: -40 °C ~ 105 °C<br>Field Installable: -40 °C ~ 105 °C                                                         |

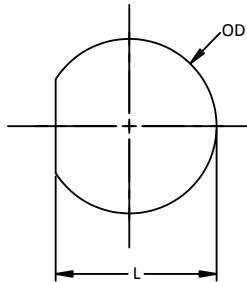
## Ordering Information

| 1                                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---------------------------------------------|---|---|---|---|---|---|---|---|
| <b>Specification</b>                        |   |   |   |   |   |   |   |   |
| (FB) Fiber Optic                            |   |   |   |   |   |   |   |   |
| <b>Mode</b>                                 |   |   |   |   |   |   |   |   |
| (SM) Single - Mode (00) None                |   |   |   |   |   |   |   |   |
| <b>Connector Body (Style)</b>               |   |   |   |   |   |   |   |   |
| > For Receptacle > For Field installable    |   |   |   |   |   |   |   |   |
| (R) Rear Fastened (B) Without Strain Relief |   |   |   |   |   |   |   |   |
| <b>Connector (Housing) Gender</b>           |   |   |   |   |   |   |   |   |
| (LM) LC Type / Plug (SM) SC Type / Plug     |   |   |   |   |   |   |   |   |
| (LF) LC Type / Jack (SF) SC Type / Jack     |   |   |   |   |   |   |   |   |
| <b>Assemble Style</b>                       |   |   |   |   |   |   |   |   |
| > For Receptacle > For Field Installable    |   |   |   |   |   |   |   |   |
| (J) Put Through (A) Field Installable       |   |   |   |   |   |   |   |   |
| <b>Mating Style</b>                         |   |   |   |   |   |   |   |   |
| (T) 3 Points Lock Bayonet                   |   |   |   |   |   |   |   |   |
| <b>Backshell</b>                            |   |   |   |   |   |   |   |   |
| > For Receptacle > For Field Installable    |   |   |   |   |   |   |   |   |
| (C) Circular (L) Straight                   |   |   |   |   |   |   |   |   |
| <b>Waterproof Rating</b>                    |   |   |   |   |   |   |   |   |
| (7) IP 67                                   |   |   |   |   |   |   |   |   |
| <b>More Information</b>                     |   |   |   |   |   |   |   |   |
| (001), (002).....                           |   |   |   |   |   |   |   |   |
| Without Cable : Different Versions          |   |   |   |   |   |   |   |   |

## Physical Dimension

### Receptacle

Panel Cut-Out

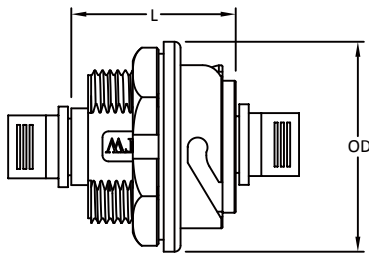


| Type \ Dimension | L     | OD    |
|------------------|-------|-------|
| LC Type          | 23.60 | 25.60 |
| SC Type          | 23.60 | 25.60 |

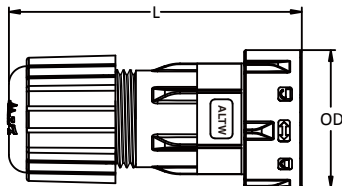
\* Maximum Panel Thickness: 4mm

Dimensions are shown in millimeters

Connector Dimension



### Field Installable

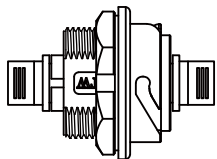


| Type \ Dimension | L    | W    |
|------------------|------|------|
| LC Type          | 66.0 | 32.6 |
| SC Type          | 66.0 | 32.6 |

Dimensions are shown in millimeters

## Product Features

### └ Receptacle



#### Backshell **7**



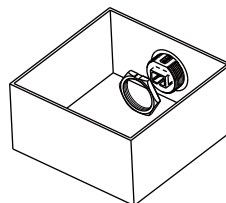
Circule (C)

#### Mating Style **6**



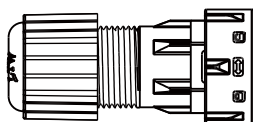
3 Points Lock Bayonet (T)

#### Connector Body(Style) **3**

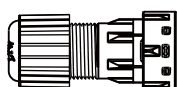


Rear Fastened (R)

### └ Field Installable



#### Backshell **7**



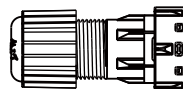
Straight (L)

#### Mating Style **6**



3 Points Lock Bayonet (T)

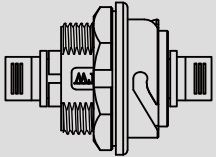
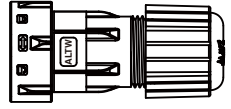
#### Connector Body(Style) **3**



Without Strain Relief (B)

## Find Our Standard Products

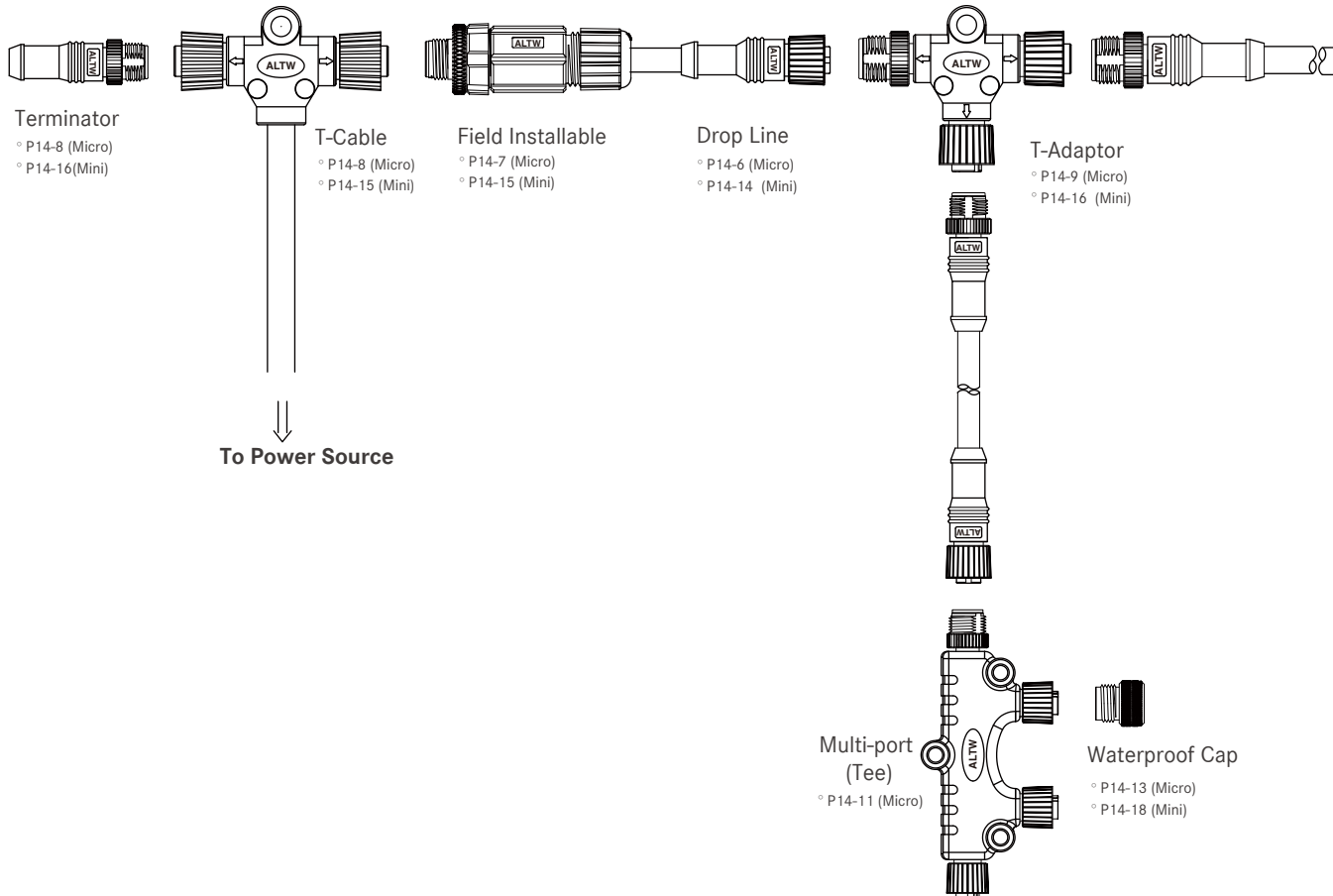
### Receptacle and Mating Pair

| Type | <div> <div> <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• 3 Point Lock Bayonet</li> </ul> </div> <div> Receptacle  </div> <div> Field Installable  </div> </div> |                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|      | Female Connector (F)                                                                                                                                                                                                                                                                                                                                                  | Male Connector (M)                    |
|      | LC Type (L)                                                                                                                                                                                                                                                                                                                                                           | FB-00BLMA-TL700 1<br>FB-00BLMA-TL7002 |
|      | SC Type (S)                                                                                                                                                                                                                                                                                                                                                           | FB-00BSMA-TL700 1                     |

FB-00BLMA-TL700 1 (Cable OD: 2.5~2.8)  
 FB-00BLMA-TL7002 (Cable OD: 4.5~6.8)  
 FB-00BSMA-TL700 1 (Cable OD: 2.4 max)

# NMEA 2000 Connector

## Range Overview



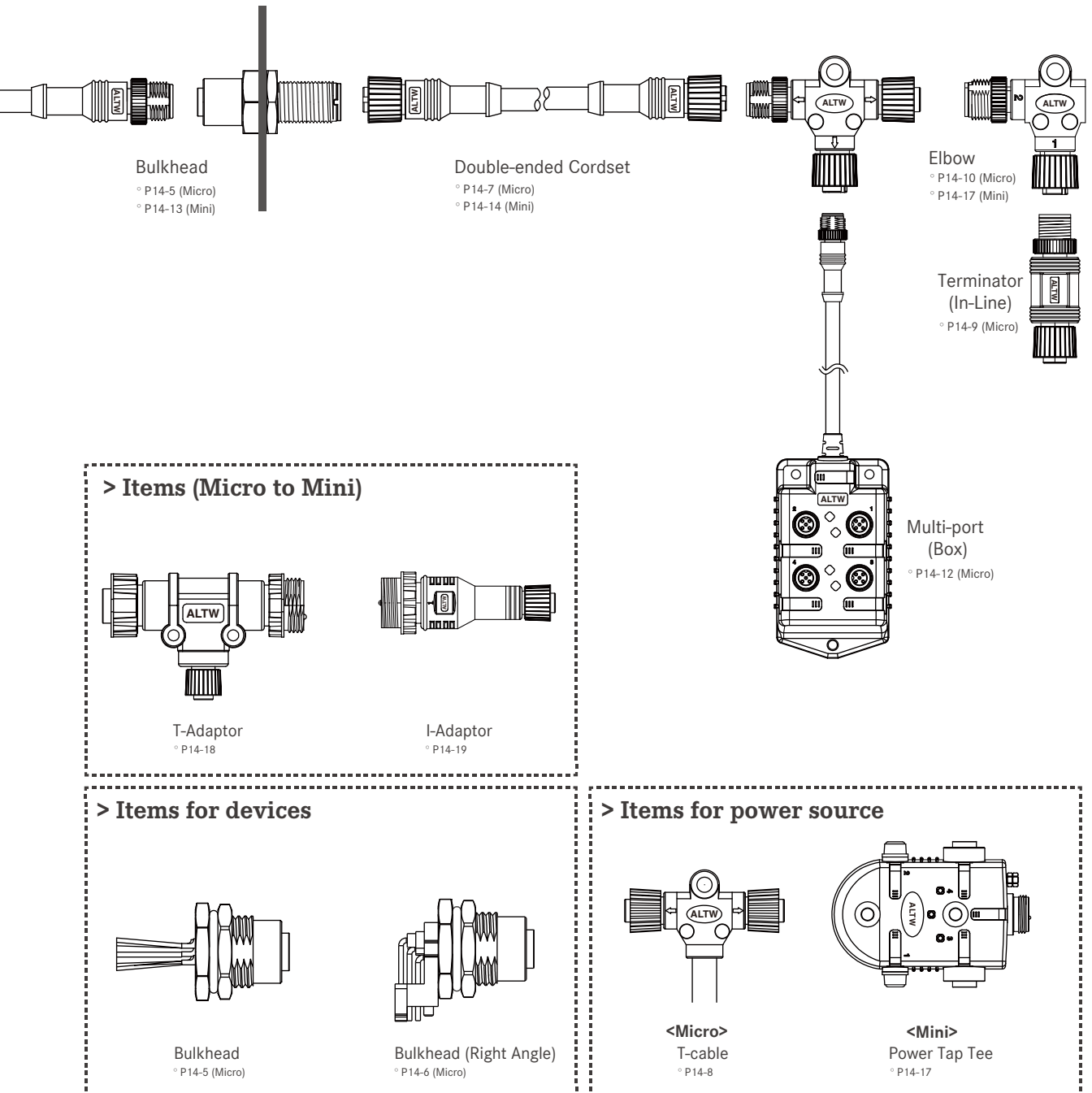
### About NMEA 2000

Amphenol LTW Technology expands its coverage targeting the marine industry that features the NMEA 2000 standard.

The NMEA 2000 standard contains the requirements of a serial data communications network to inter-connect marine electronic equipment on

vessels. It is multi-master and self-configuring, and there is no central network controller. Equipment designed to this standard will have the ability to

share data, including commands and status with other compatible equipment over a status with other compatible equipment over a single channel.



# Specification

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identifications       | Micro(AWG: 22 AWG, 24 AWG )<br>Mini(AWG: 18 AWG, 15 AWG )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description           | <p><b>Micro:</b></p> <p>Bulkhead (With Wire / Double-ended / Right Angle)<br/>Cable (Drop Line / Double-ended Cordset / Field Installable / T-Cable)<br/>Network Terminator (Single-ended / In-line)<br/>Adaptor (T-Adaptor / Elbow)<br/>Multi-port<br/>Waterproof Cap</p> <p><b>Mini:</b></p> <p>Bulkhead (Double-ended)<br/>Cable (Drop Line / Double-ended Cordset / Field Installable / T-Cable)<br/>Network Terminator (Single-ended)<br/>Adaptor (T-Adaptor / Elbow)<br/>Power Tap Tee<br/>Waterproof Cap</p> <p><b>Mini to Micro:</b></p> <p>Adaptor (T-Adaptor / I-Adaptor)</p> |
| Current Rating / Data | 4A, 8A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Material              | Contacts: Copper Alloy, Gold Plated<br>Contacts Holder: PA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Waterproof Rating     | IP67~68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Temperature Range     | Receptacle: -40℃~85℃<br>Overmolded with Cable: -20℃~80℃<br>Field Installable: Nylon+GF: -40℃~105℃<br>PU: -20℃~85℃<br><br>* Higer working temperature upon request.                                                                                                                                                                                                                                                                                                                                                                                                                      |



## Contact Configuration

|      | Micro-C  | Mini-C   |
|------|----------|----------|
|      | 4A       | 8A       |
|      | FF or MM | FF or MM |
| 4Pin |          |          |
| 5Pin |          |          |



### Number of Contacts:

Ex.2 contacts **(02)**

### Connector (Housing) Gender:

Male**(M)** or Female**(F)**

### Contact Gender:

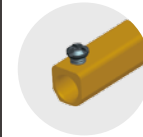
Male**(M)** or Female**(F)**

### More to Choose:

- Solder **(S)**  
- Solder Cup



- Screw In **(B)**



## Cabling Information

### Micro

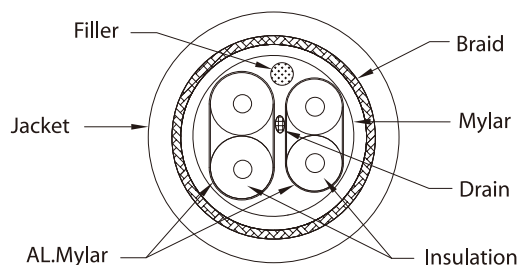
#### NMEA Approved

**(A):** (24#\* 1P+AL) + (22#\* 1P+AL) + Drain + Mylar + Braid

#### Conforming

**(A):** (24#\* 1P+AL) + (22#\* 1P+AL) + Drain + AL + Braid

**(B):** (22#\* 1P+AL) + (18#\* 1P+AL) + Drain + AL + Braid



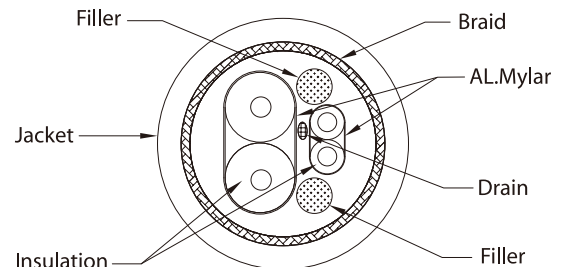
### Mini

#### NMEA Approved

**(C):** (18#\* 1P+AL) + (15#\* 1P+AL) + Drain + Braid

#### Conforming

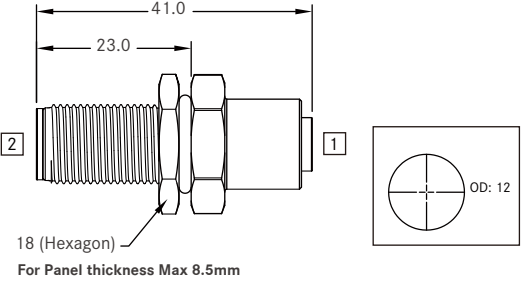
**(C):** (18#\* 1P+AL) + (16#\* 1P+AL) + Drain + AL+Braid



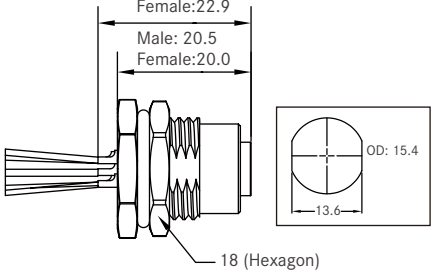
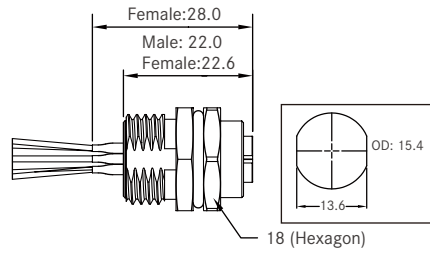
\* Design and specification are subject to change without notice.

## Find Our Standard Products

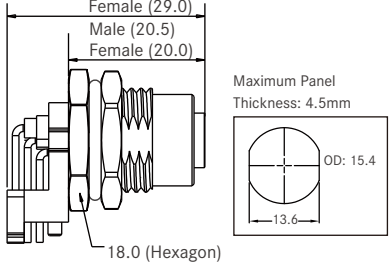
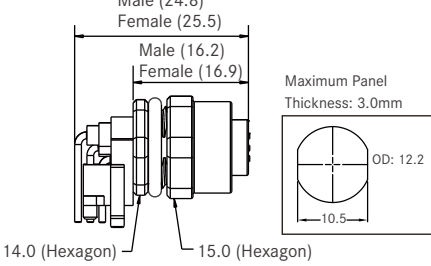
### Micro > Bulkhead (Double-ended)

|                                                                                                                |           |                                                                                    |  |
|----------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Unmated IP68</li> </ul> |           |  |  |
| Type                                                                                                           | Connector | Connector 1<br>(Female Connector / Female Contacts)                                |  |
|                                                                                                                |           | Connector 2<br>(Male Connector / Male Contacts)                                    |  |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                         |           | MC-000505-0FM-BS001                                                                |  |
| Certified NMEA 2000<br>(4A, 60V)                                                                               |           | UMC-000505-0FM-BS001                                                               |  |

### Micro > Bulkhead

|                                                                                                                                           |                                        |                                                                                                                                                                                                                                                                |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• For device side</li> <li>• Unmated IP68</li> </ul> |                                        | <div> <div> <p>* Front Fastened</p>  </div> <div> <p>* Rear Fastened</p>  </div> </div> |                                                   |
| Type                                                                                                                                      | Connector                              | Connector<br>(Male Connector / Male Contacts)                                                                                                                                                                                                                  | Connector<br>(Female Connector / Female Contacts) |
|                                                                                                                                           | None- Certified NMEA 2000<br>(4A, 60V) | MC-05PMMS-SF8001<br>MC-05PMMS-SH8001                                                                                                                                                                                                                           | MC-05PFFS-SF8001<br>MC-05PFFS-SH8001              |

## Micro > Bulkhead (Right Angle)

|                                                                                                                                                   |                                                                                                                                                                                                                                                    |                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• For device side</li><li>• Unmated IP68 / Mated IP67</li></ul> | <div><div><p>* IP 68 (Unmated)</p></div><div><p>* IP 67 (Mated)</p></div></div> |                                                                                                                                                       |
|                                                                                                                                                   | <div><div>Connector Type</div><div>None- Certified NMEA 2000 (4A, 60V)</div><div>None- Certified NMEA 2000 (Plastic / 4A, 60V)</div></div>                                                                                                         | <div><div>Connector (Male Connector / Male Contacts)</div><div>12-05PMMR-SF700 1</div><div>12-05PMMR-SF800 1</div><div>12P-05PMMR-SF800 1</div></div> |

## Micro > Cable > Drop Line

- 5 Contacts
- Screw Thread
- For power tap connection
- Mated IP68

Male (44.4)  
Female (43.3)

Male (14.4)  
Female (14.5)

**10** Cabling Information

NMEA Approved

(A): (24#\*1P+AL) + (22#\*1P+AL) + Drain + Mylar + Braid Conforming

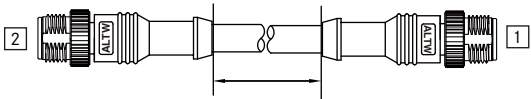
(A): (24#\*1P+AL) + (22#\*1P+AL) + Drain + AL + Braid

(B): (22#\*1P+AL) + (18#\*1P+AL) + Drain + AL + Braid

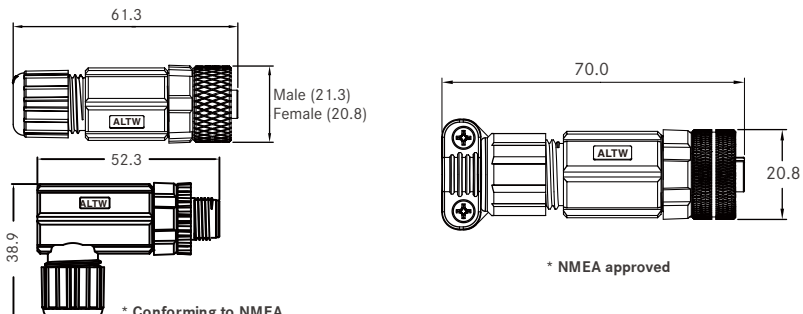
\*\*Available in 1, 2, 5, 10 M.

| Connector<br>Type                                | Connector<br>(Male Connector / Male Contacts) | Connector<br>(Female Connector / Female Contacts) |
|--------------------------------------------------|-----------------------------------------------|---------------------------------------------------|
| None- Certified NMEA 2000<br>(4A, 60V)           | MC-05BMMM-SL8 <b>10</b> **                    | MC-05BFFM-SL8 <b>10</b> **                        |
| None- Certified NMEA 2000<br>(Plastic / 4A, 60V) | MCP-05BMMM-SL8 <b>10</b> **                   | MCP-05BFFM-SL8 <b>10</b> **                       |
| Certified NMEA 2000<br>(4A, 60V)                 | UMC-05BMMM-SL8 <b>10</b> **                   | -                                                 |

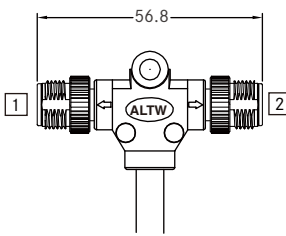
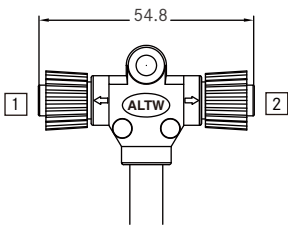
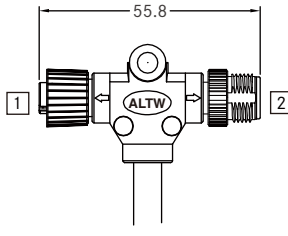
## Micro > Cable > Double-ended Cordset

| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Mated IP68</li> </ul> |                                                  |  <p>*Available in 1, 2, 5, 10 M</p> <p>*Cable 22+24+B PVC</p> |                                                      |                                                  |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|
| Type                                                                                                         | Connector                                        | Connector 1<br>(Male Connector<br>Male Contacts)                                                                                                | Connector 1<br>(Female Connector<br>Female Contacts) | Connector 1<br>(Male Connector<br>Male Contacts) |
|                                                                                                              | Connector 2<br>(Male Connector<br>Male Contacts) | Connector 2<br>(Female Connector<br>Female Contacts)                                                                                            | Connector 2<br>(Female Connector<br>Female Contacts) |                                                  |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                       |                                                  | MC-000505-0MM-CS*                                                                                                                               | MC-000505-OFF-CS*                                    | MC-000505-0MF-CS*                                |
| None- Certified NMEA 2000<br>(Plastic / (4A, 60V)                                                            |                                                  | PC-000505-0MM-CS*                                                                                                                               | PC-000505-OFF-CS*                                    | PC-000505-0MF-CS*                                |
| Certified NMEA 2000<br>(4A, 60V)                                                                             |                                                  | -                                                                                                                                               | -                                                    | UMC-000505-0MF-CSA*                              |

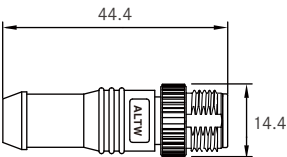
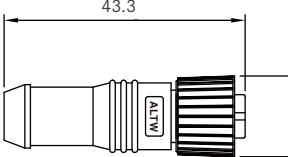
## Micro > Cable > Field Installable

| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Screw-in Contacts</li> <li>• Mated IP68</li> </ul> |           |  <p>* Conforming to NMEA</p> <p>* NMEA approved</p> |                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Type                                                                                                                                      | Connector | Connector<br>(Male Connector / Male Contacts)                                                                                           | Connector<br>(Female Connector / Female Contacts)                     |
|                                                                                                                                           |           |                                                                                                                                         |                                                                       |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                                                    |           | 12-05BMMB-SL7001<br>12-05BMMB-SR7001<br>(Ø4.5 ~ Ø6.0mm; 18AWG Max.)                                                                     | 12-05BFFB-SL7001<br>12-05BFFB-SR7001<br>(Ø4.5 ~ Ø6.0mm; 18AWG Max.)   |
| None- Certified NMEA 2000<br>(Plastic / 4A, 60V)                                                                                          |           | 12P-05BMMB-SL7001<br>12P-05BMMB-SR7001<br>(Ø4.5 ~ Ø6.0mm; 18AWG Max.)                                                                   | 12P-05BFFB-SL7001<br>12P-05BFFB-SR7001<br>(Ø4.5 ~ Ø6.0mm; 18AWG Max.) |
| Certified NMEA 2000<br>(4A, 60V)                                                                                                          |           | UMC-05BMMB-SL7001<br>(Ø4.5 ~ Ø7.5mm; 18AWG Max.)                                                                                        | UMC-05BFFB-SL7001<br>(Ø4.5 ~ Ø7.5mm; 18AWG Max.)                      |

## Micro > Cable > T-Cable

|                                                                                                                                             |                                                  |                                                                                   |                                                                                   |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• For Power Tap Connection</li><li>• Mated IP68</li></ul> |                                                  |  |  |  |
|                                                                                                                                             |                                                  | <p>* Cable 22+18+8 PVC</p> <p>* Available in 1, 2, 5, 10 M.</p>                   |                                                                                   |                                                                                     |
| Connector<br><br>Type                                                                                                                       | Connector 1<br>(Male Connector<br>Male Contacts) | Connector 1<br>(Female Connector<br>Female Contacts)                              | Connector 1<br>(Female Connector<br>Female Contacts)                              |                                                                                     |
|                                                                                                                                             | Connector 2<br>(Male Connector<br>Male Contacts) | Connector 2<br>(Female Connector<br>Female Contacts)                              | Connector 2<br>(Male Connector<br>Male Contacts)                                  |                                                                                     |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                                                      | MC-050500-MM0-TSB*                               | MC-050500-FF0-TSB*                                                                | MC-050500-FM0-TSB*                                                                |                                                                                     |
| None- Certified NMEA 2000<br>(Plastic) (4A, 60V)                                                                                            | PC-050500-MM0-TSB*                               | PC-050500-FF0-TSB*                                                                | PC-050500-FM0-TSB*                                                                |                                                                                     |
| Certified NMEA 2000<br>(4A, 60V)                                                                                                            | -                                                | -                                                                                 | UMC-050500-FM0-TSA*                                                               |                                                                                     |

## Micro > Network terminator > Terminator

| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• With 120Ω Resistor</li> <li>• Mated IP68</li> </ul> |           |  |                                                   |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------|--|
| Type                                                                                                                                       | Connector | Connector<br>(Male Connector / Male Contacts)                                       | Connector<br>(Female Connector / Female Contacts) |                                                                                      |  |
|                                                                                                                                            |           |                                                                                     |                                                   |                                                                                      |  |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                                                     |           | MC-05BMMT-SL8001                                                                    | MC-05BFFT-SL8001                                  |                                                                                      |  |
| None- Certified NMEA 2000<br>(Plastic / 4A, 60V)                                                                                           |           | MCP-05BMMT-SL8001                                                                   | MCP-05BFFT-SL8001                                 |                                                                                      |  |
| Certified NMEA 2000<br>(4A, 60V)                                                                                                           |           | UMC-05BMMT-SL8001                                                                   | UMC-05BFFT-SL8001                                 |                                                                                      |  |

\* Design and specification are subject to change without notice.

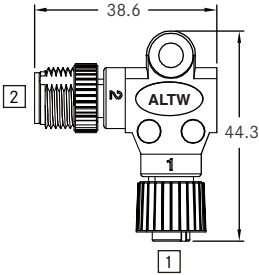
Micro > Network Terminator > Terminator (In-Line)

|                                                                                                                   |           |                     |                                                                                                                                                                     |                                                         |
|-------------------------------------------------------------------------------------------------------------------|-----------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <div><div>• 5 Contacts</div><div>• Screw Thread</div><div>• With 120Ω Resistor</div><div>• Mated IP68</div></div> |           |                     | <div><div><div>50.0</div><div><div>1</div><div>2</div></div><div>ALTW</div></div><div><div>49.2</div><div><div>1</div><div>2</div></div><div>ALTW</div></div></div> |                                                         |
| Type                                                                                                              | Connector |                     | Connector 1<br>(Male Connector / Male Contacts)                                                                                                                     | Connector 1<br>(Female Connector / Female Contacts)     |
|                                                                                                                   |           |                     | Connector 2<br>(Female Connector / Female Contacts)                                                                                                                 | Connector 2<br>(Female Connector / Female Contacts)     |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                            |           | MC-000505-0MF-IS001 |                                                                                                                                                                     | * Please contact our sales team<br>for more information |

Micro > Adaptor > T-Adaptor

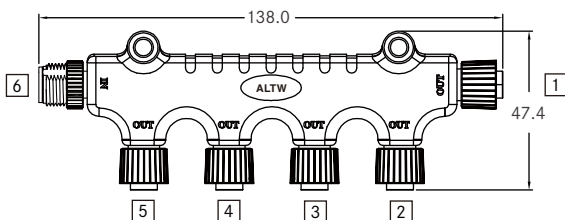
|                                                                                    |           |                                                                                                                               |                                                     |  |
|------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--|
| <div><div>• 5 Contacts</div><div>• Screw Thread</div><div>• Mated IP68</div></div> |           | <div><div><div>55.9</div><div><div>1</div><div>2</div></div><div>ALTW</div><div><div>43.8</div><div>3</div></div></div></div> |                                                     |  |
| Type                                                                               | Connector |                                                                                                                               | Connector 1<br>(Female Connector / Female Contacts) |  |
|                                                                                    |           |                                                                                                                               | Connector 2<br>(Male Connector / Male Contacts)     |  |
|                                                                                    |           |                                                                                                                               | Connector 3<br>(Female Connector / Female Contacts) |  |
| None- Certified NMEA 2000<br>(4A, 60V)                                             |           | UMC-050505-FMF-TS001                                                                                                          |                                                     |  |

## Micro > Adaptor > Elbow

|                                                                                                              |                                                                                   |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Mated IP68</li> </ul> |  |
| <div>Type</div>                                                                                              | <div>Connector 1</div> <div>(Female Connector / Female Contacts)</div>            |
|                                                                                                              | <div>Connector 2</div> <div>(Male Connector / Male Contacts)</div>                |
| <div>None- Certified NMEA 2000</div> <div>(4A, 60V)</div>                                                    | <div>MC-000505-0FM-ES001</div>                                                    |

## Micro > Adaptor > T-Adaptor

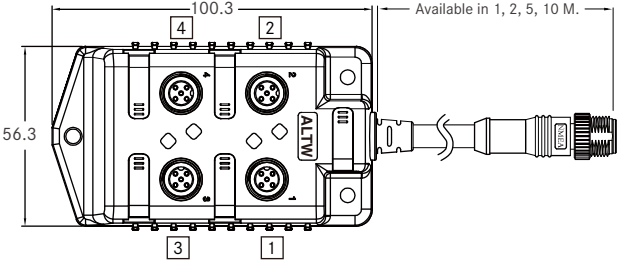
- 5 Contacts
- Screw Thread
- Mated IP68



| Type                                   | Connector | Connector 1<br>(Female Connector / Female Contacts) | Connector 1<br>(Female Connector / Female Contacts) |
|----------------------------------------|-----------|-----------------------------------------------------|-----------------------------------------------------|
|                                        |           | Connector 2<br>(Female Connector / Female Contacts) | Connector 2<br>(Female Connector / Female Contacts) |
|                                        |           | Connector 3<br>(Female Connector / Female Contacts) | Connector 3<br>(Female Connector / Female Contacts) |
|                                        |           | Connector 4<br>(Male Connector / Male Contacts)     | Connector 4<br>(Female Connector / Female Contacts) |
|                                        |           | -                                                   | Connector 5<br>(Female Connector / Female Contacts) |
|                                        |           | -                                                   | Connector 6<br>(Male Connector / Male Contacts)     |
| None- Certified NMEA 2000<br>(4A, 60V) |           | S-555500-FFFM00-S001                                | S-555555-FFFFFM-S001                                |
| Certified NMEA 2000<br>(4A, 60V)       |           | E-555500-FFFM00-S001                                | E-555555-FFFFFM-S001                                |

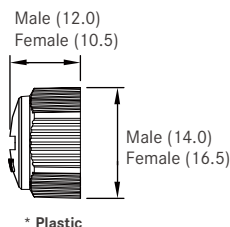
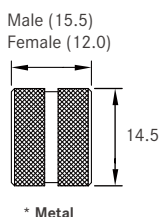


## Micro > Multi-port > Box

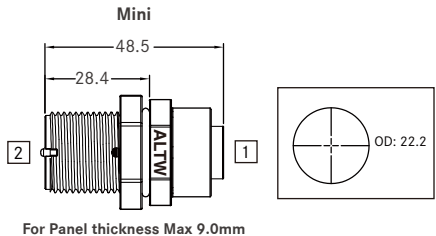
|                                                                                                              |                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Mated IP68</li> </ul> |  <p>* Cable 22+18+B PVC<br/>** Cable 22+24+B PVC</p> |
| <div>Connector</div> <div>Type</div>                                                                         | Connector 1<br>(Female Connector / Female Contacts)                                                                                    |
|                                                                                                              | Connector 2<br>(Female Connector / Female Contacts)                                                                                    |
|                                                                                                              | Connector 3<br>(Female Connector / Female Contacts)                                                                                    |
|                                                                                                              | Connector 4<br>(Female Connector / Female Contacts)                                                                                    |
| None- Certified NMEA 2000<br>(4A, 30V)                                                                       | S-555500-FFFF00-SB*                                                                                                                    |
| Certified NMEA 2000<br>(4A, 30V)                                                                             | E-555500-FFFF00-SA**                                                                                                                   |

\* Design and specification are subject to change without notice.

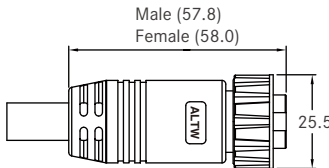
## Micro > Cap > Waterproof Cap

| <ul style="list-style-type: none"> <li>• Screw Thread</li> <li>• Mated IP68</li> </ul> |                                      |   |                                       |
|----------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Size                                                                                   | Mating Pair                          | Mating Style                                                                                                                                                          | Part Number                           |
| Micro                                                                                  | Receptacle                           | Screw Thread                                                                                                                                                          | CAP-WBDMSPB2                          |
|                                                                                        | Receptacle and Overmolded with Cable | Screw Thread                                                                                                                                                          | CAP-WBD <sup>4</sup> SMA <sup>7</sup> |

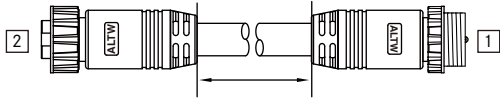
## Mini > Bulkhead (Double-ended)

|                                                                                                            |           |                                                                                                                                     |  |
|------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• Unmated IP68</li></ul> |           | <div><p>For Panel thickness Max 9.0mm</p></div> |  |
| Type                                                                                                       | Connector | Connector 1<br>(Female Connector / Female Contacts)                                                                                 |  |
|                                                                                                            |           | Connector 2<br>(Male Connector / Male Contacts)                                                                                     |  |
| None- Certified NMEA 2000<br>(8A, 600V)                                                                    |           | MN-000505-0FM-BS001                                                                                                                 |  |
| Certified NMEA 2000<br>(8A, 600V)                                                                          |           | UMN-000505-0FM-BS001                                                                                                                |  |

## Mini > Cable > Drop Line

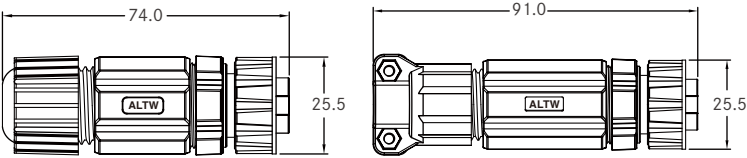
|                                                                                                          |  |  |                                                                                                                                                                                                                                                                                                                                                               |  |                                                   |  |
|----------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• Mated IP68</li></ul> |  |  | <div></div> <div><div>10</div><div>Cabling Information</div><div>NMEA Approved</div><div>(C): (18#*1P+AL) + (15#*1P+AL) + Drain + Braid</div><div>Conforming</div><div>(C): (18#*1P+AL) + (16#*1P+AL) + Drain + AL+Braid</div><div>**Available in 1, 2, 5, 10 M.</div></div> |  |                                                   |  |
| Connector<br>Type                                                                                        |  |  | Connector<br>(Male Connector / Male Contacts)                                                                                                                                                                                                                                                                                                                 |  | Connector<br>(Female Connector / Female Contacts) |  |
| None- Certified NMEA 2000<br>(8A, 30V)                                                                   |  |  | MN-05AMMM-SL8 10 **                                                                                                                                                                                                                                                                                                                                           |  | MN-05AFFM-SL8 10 **                               |  |
| NMEA Approved<br>(8A, 600V)                                                                              |  |  | UMN-05AMMM-SL8 10 **                                                                                                                                                                                                                                                                                                                                          |  | -                                                 |  |

## Mini > Cable > Double-ended Cordset

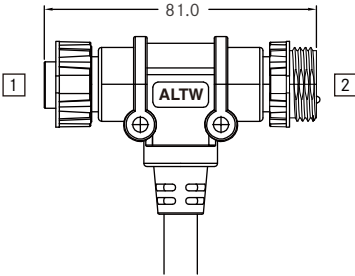
|                                                                                                          |           |                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• Mated IP68</li></ul> |           |  <p>* Available in 1, 2, 5, 10 M</p> |  |
| Type                                                                                                     | Connector | Connector 1<br>(Male Connector / Male Contacts)                                                                          |  |
|                                                                                                          |           | Connector 2<br>(Female Connector / Female Contacts)                                                                      |  |
| None- Certified NMEA 2000<br>(8A, 30V)                                                                   |           | MN-000505-0MF-CSC *                                                                                                      |  |
| Certified NMEA 2000<br>(8A, 600V)                                                                        |           | UMN-000505-0MF-CSC *                                                                                                     |  |

\* Design and specification are subject to change without notice.

Mini > Cable > Field Installable

| <div><div><div>• 5 Contacts</div><div>• Screw Thread</div><div>• Screw-in Contacts</div><div>• Mated IP68</div></div><div><div>* Conforming to NMEA</div><div>* NMEA approved</div></div></div> |                                                |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------|
| Connector<br>Type                                                                                                                                                                                                                                                                 | Connector<br>(Male Connector / Male Contacts)  | Connector<br>(Female Connector / Female Contacts) |
| None- Certified NMEA 2000<br>(8A, 600V)                                                                                                                                                                                                                                           | MN-05BMMB-SL7001<br>(Ø8 ~Ø11mm; 15AWG Max.)    | MN-05BFFB-SL7001<br>(Ø8 ~Ø11mm; 15AWG Max.)       |
| Certified NMEA 2000<br>(8A, 600V)                                                                                                                                                                                                                                                 | UMN-05BMMB-SL7001<br>(Ø8 ~Ø12.2mm; 15AWG Max.) | UMN-05BFFB-SL7001<br>(Ø8 ~Ø12.2mm; 15AWG Max.)    |

Mini > Cable > T-Cable

| <div><div><div>• 5 Contacts</div><div>• Screw Thread</div><div>• Mated IP68</div></div><div><div>* Cable: Refer to P14-4</div><div>* Available in 1, 2, 5, 10 M.</div></div></div> |                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--|
| Connector<br>Type                                                                                                                                                                                                                                                     | Connector 1<br>(Female Connector / Female Contacts) |  |
|                                                                                                                                                                                                                                                                       | Connector 2<br>(Male Connector / Male Contacts)     |  |
| None- Certified NMEA 2000<br>(8A, 30V)                                                                                                                                                                                                                                | MN-050500-FM0-TSC*                                  |  |

## ▾ Mini > Network Terminator > Terminator

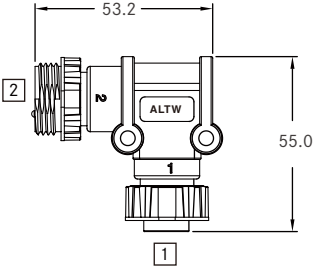
|                                                                                                                                            |  |  |                                                 |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------|-----------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• With 120Ω Resistor</li> <li>• Mated IP68</li> </ul> |  |  |                                                 |                                                     |
| <div>Connector</div> <div>Type</div>                                                                                                       |  |  | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) |
| None- Certified NMEA 2000<br>(8A, 250V)                                                                                                    |  |  | MNL-05BMMT-SL8001                               | MNL-05BFFT-SL8001                                   |
| Certified NMEA 2000<br>(8A, 250V)                                                                                                          |  |  | UMN-05AMMT-SL8001                               | UMN-05AFFT-SL8001                                   |

## ▾ Mini > Adaptor > T-Adaptor

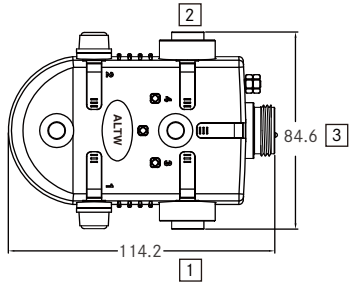
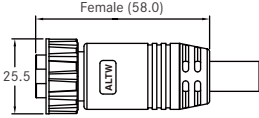
|                                                                                                              |  |  |                                                     |  |
|--------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Mated IP68</li> </ul> |  |  |                                                     |  |
| <div>Connector</div> <div>Type</div>                                                                         |  |  | Connector 1<br>(Female Connector / Female Contacts) |  |
|                                                                                                              |  |  | Connector 2<br>(Male Connector / Male Contacts)     |  |
|                                                                                                              |  |  | Connector 3<br>(Female Connector / Female Contacts) |  |
| None- Certified NMEA 2000<br>(8A, 300V)                                                                      |  |  | MN-050505-FMF-TS001                                 |  |
| Certified NMEA 2000<br>(8A, 300V)                                                                            |  |  | UMN-050505-FMF-TS001                                |  |

\* Design and specification are subject to change without notice.

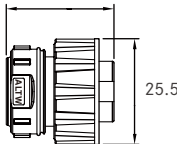
### Mini > Adaptor > Elbow

|                                                                                                              |           |                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• Mated IP68</li> </ul> |           |  |  |
| Type                                                                                                         | Connector | Connector 1<br>(Female Connector / Female Contacts)                                |  |
|                                                                                                              |           | Connector 2<br>(Male Connector / Male Contacts)                                    |  |
| None- Certified NMEA 2000<br>(8A, 300V)                                                                      |           | MN-000505-0FM-ES001                                                                |  |

### Mini > Power Tap Tee

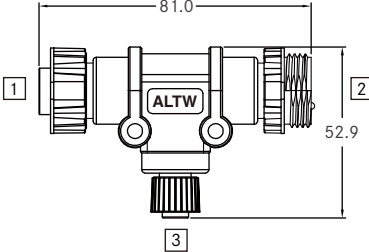
|                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>• 5 Contacts</li> <li>• Screw Thread</li> <li>• With replaceable fuse</li> <li>• Mated IP68</li> </ul> |           |  <div data-bbox="863 1048 1263 1352"> <p>* Recommended Mating Pair for <b>3</b></p> <p>MN-04AFFM-SL8D**</p> <p>Male (57.8)<br/>Female (58.0)</p>  <p>Cabling Information<br/>Conforming<br/>(C): (18#*1P+AL) + (16#*1P+AL) + Drain + AL+Braid<br/>** Available in 1, 2, 5, 10 M</p> </div> |  |
| Type                                                                                                                                          | Connector | Connector 1<br>(Male Connector / Male Contacts)                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|                                                                                                                                               |           | Connector 2<br>(Female Connector / Female Contacts)                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                                                                                                                               |           | Connector 3<br>(Female Connector / Female Contacts)                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| None- Certified NMEA 2000<br>(8A, 250V)                                                                                                       |           | N-455000-MFF000-S001                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Certified NMEA 2000<br>(8A, 250V)                                                                                                             |           | U-455000-MFF000-S001                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |

Mini > Cap > Waterproof Cap

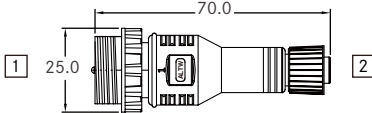
|                                                                                    |                                      |                                                                                                                                                        |                |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <div><div>• 5 Contacts</div><div>• Screw Thread</div><div>• Mated IP68</div></div> |                                      | <div><div>Male (25.2)</div><div>Female (25.4)</div><div></div></div> |                |
|                                                                                    |                                      | <div>4 Choose gender of mating pair : Male(M) / Female(F)</div>                                                                                        |                |
| Size                                                                               | Mating Pair                          | Mating Style                                                                                                                                           | P/N            |
| Mini                                                                               | Receptacle and Overmolded with Cable | Screw Thread                                                                                                                                           | CAP-WMN 4 SMA1 |

\* Design and specification are subject to change without notice.

Mini to Micro > Adaptor > T-Adaptor

|                                                                                                          |                                                     |                                                                                    |  |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• Mated IP68</li></ul> |                                                     |  |  |
| <div>Type</div> <div>Connector</div>                                                                     | Connector 1<br>(Female Connector / Female Contacts) |                                                                                    |  |
|                                                                                                          | Connector 2<br>(Male Connector / Male Contacts)     |                                                                                    |  |
|                                                                                                          | Connector 3<br>(Female Connector / Female Contacts) |                                                                                    |  |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                   |                                                     | NC-050505-FMF-TS001                                                                |  |
| Certified NMEA 2000<br>(4A, 60V)                                                                         |                                                     | UNC-050505-FMF-TS001                                                               |  |

Mini to Micro > I-Adaptor

|                                                                                                          |           |                                                                                      |  |
|----------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"><li>• 5 Contacts</li><li>• Screw Thread</li><li>• Mated IP68</li></ul> |           |  |  |
| Type                                                                                                     | Connector | Connector 1<br>(Male Connector / Male Contacts)                                      |  |
|                                                                                                          |           | Connector 2<br>(Female Connector / Female Contacts)                                  |  |
| None- Certified NMEA 2000<br>(4A, 60V)                                                                   |           | NC-000505-0MF-IS001                                                                  |  |



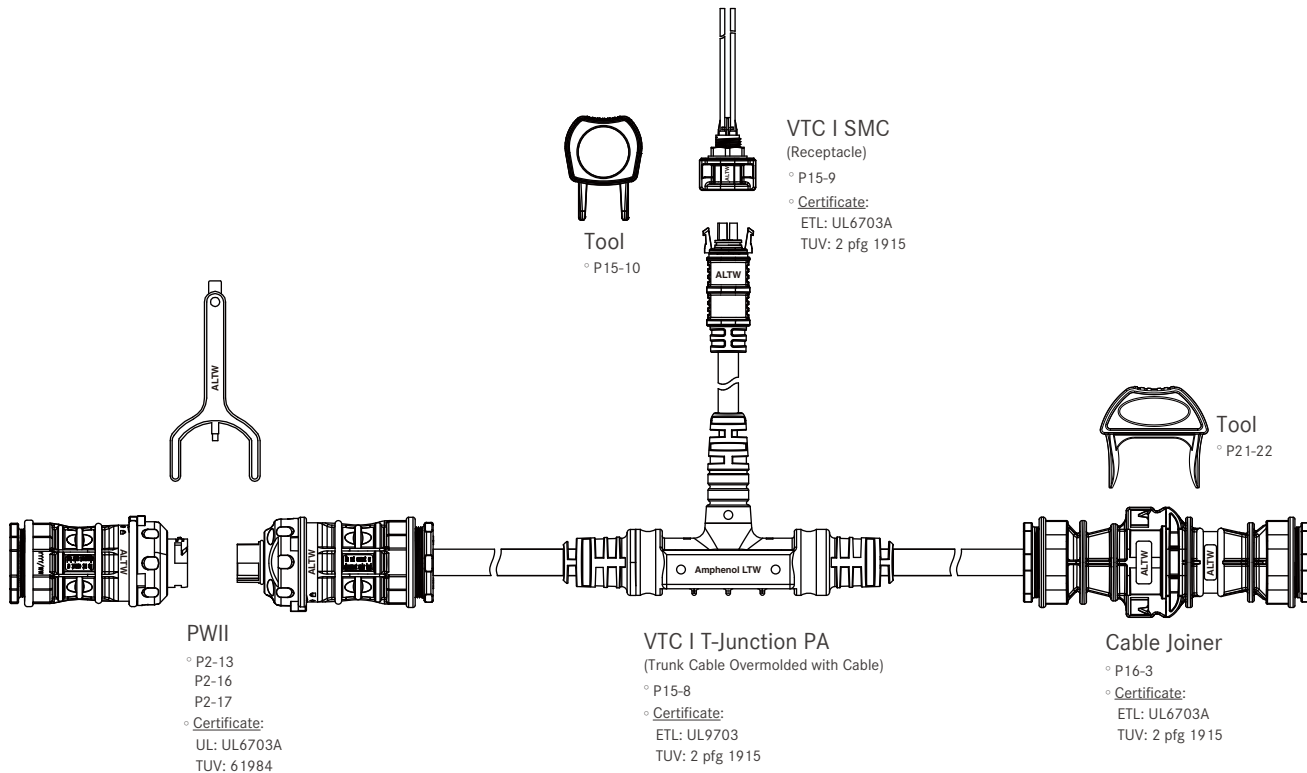
Blank lined paper for writing.



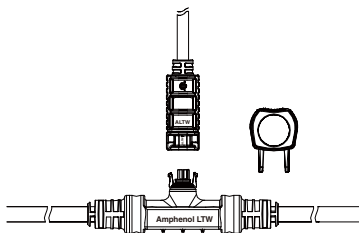
Scan to visit our website

# PV AC Connectors / T-Junction Connector

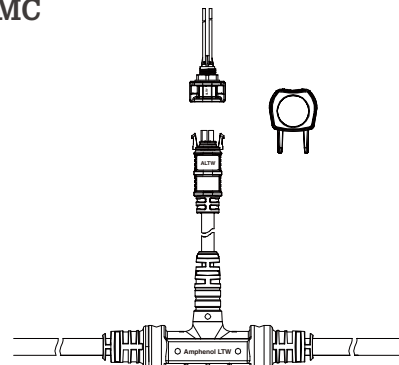
## Range Overview



### > VTC | PT (Trunk Cable with Receptacle) & SMC



### > VTC | PA (Trunk Cable Overmolded with Cable) & SMC



### VTC | SMC

(Overmolded with Cable)

- P15-9
- Certificate:  
ETL: UL6703A  
TUV: 2 pfg 1915



Tool  
◦ P15-10



Tool  
◦ P15-13

### VTC | T-Junction PT

(Trunk Cable with Receptacle)

- P15-8
- Certificate:  
ETL: UL9703  
TUV: 2 pfg 1915

### BMC

- P15-13
- Certificate:  
ETL: UL6703A  
TUV: 2 pfg 1915

### End Cap

- P15-10
- Certificate:  
ETL: UL6703A  
TUV: 2 pfg 1915

#### > SMC | In Line



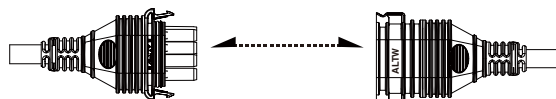
#### > SMC | Receptacle to Overmolded with Cable



#### > SMC | Receptacle to Receptacle



#### > BMC | In Line



\* Design and specification are subject to change without notice.

# Specification

|                              |                                                                                                                                                                                        |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | VTC I T Junction: PT & PA (For Trunk Cable)<br>VTC I SMC (For Drop or Receptacle)<br>BMC                                                                                               |
| <b>Description</b>           | Cabling System for Micro-inverter                                                                                                                                                      |
| <b>Current Rating / Data</b> | VTC I T Junction:<br>Trunk Range: UL15A~30A / TUV17-25A / 3~4Pin<br>VTC I SMC: 5A / 03~4Pin<br>BMC: UL17A / TUV19A / 3~4Pin                                                            |
| <b>Material</b>              | Contacts: Copper Alloy<br>Connector Body: m-PPE                                                                                                                                        |
| <b>Waterproof Rating</b>     | IP67                                                                                                                                                                                   |
| <b>Temperature Range</b>     | Ambient: -40°C ~ +85°C<br>Upper Limited Temperature:+105°C                                                                                                                             |
| <b>Contact Resistance</b>    | ≤ 10mΩ                                                                                                                                                                                 |
| <b>Insulation Resistance</b> | ≥ 100mΩ at DC500V                                                                                                                                                                      |
| <b>Durability</b>            | 500 cycles                                                                                                                                                                             |
| <b>Breakdown Voltage</b>     | ≥ DC6000V / 1 minute                                                                                                                                                                   |
| <b>Certificate</b>           | VTC I T-Junction: ETL: UL9703, TUV: 2 pfg 1915<br>VTC I SMC: ETL: UL6703A, TUV: 2 pfg 1915<br>BMC: ETL: UL6703A, TUV: 2 pfg 1915                                                       |
| <b>Voltage Rating</b>        | AC 300V                                                                                                                                                                                |
| <b>More to know</b>          | Salt Spray Corrosion test: 48H<br>Cable for Trunk: 14~10AWG or 2.5mm <sup>2</sup> ~4mm <sup>2</sup><br>Cable for Drop: 18AWG or 0.75mm <sup>2</sup><br>Trunk Cable Pitch: Upon request |



## Ordering Information | VTC | SMC

1 — 2 3 4 5 6 — 7 8 9 10

### Specification

(SPS) Solar Power AC (Small size)

### Number of Contacts

(03) 3 Contacts (04) 4 Contacts

### Connector Body (Style)

> Receptacle > Overmolded with Cable  
(R) ALTW Rear Fastened (A) With Strain Relief

### Connector Housing Gender

(M) Male (Plug) (F) Female (Socket)

### Contact Gender

(M) Male (F) Female

### Assemble Style

> Receptacle > Overmolded with Cable  
(C) Crimp Type (With Wire) (M) Overmolded with Cable

### Mating Style

(L) 2 Points Lock (Push & Pull)  
(With Unlocking Tool)

### Backshell

> Receptacle > Overmolded with Cable  
(C) Circular (L) Straight

### Waterproof Rating

(7) IP 67

### More Information

> For Receptacle

001, 002, 003.....

001 is US Spec, 002 is EU Spec

> For Overmolded with Cable

(□)+(■) : Cable Type + Cable Length

EX. (T01) = US Cable For TCER 18# Cable + 1M

(□) : Cable Type

(T) US Cable For TCER 18# Cable

(D) EU Cable For HAR 0.75mm<sup>2</sup> Cable

(E) EU Cable For 1940 0.75mm<sup>2</sup> Cable

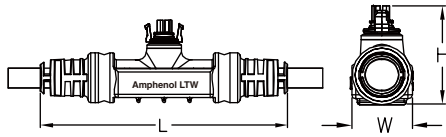
(■) : Cable Length

From 1M to 99M

EX. (01) = 1M

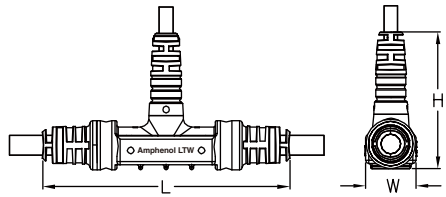
## Physical Dimension

### ⌵ VTC | PT



| AMP \ Dimension                         | L     | H    | W    |
|-----------------------------------------|-------|------|------|
| 30A (UL TCER 10#)                       | 150.0 | 50.1 | 30.6 |
| 20A (UL TCER 12#)                       | 150.0 | 50.1 | 30.6 |
| 15A (UL TCER 14#)                       | 150.0 | 50.1 | 30.6 |
| 25A (TUV 2pfg 1915 4mm <sup>2</sup> )   | 150.0 | 50.1 | 30.6 |
| 17A (TUV 2pfg 1915 2.5mm <sup>2</sup> ) | 150.0 | 50.1 | 30.6 |

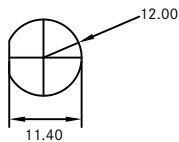
### ⌵ VTC | PA



| Dimension                               | L     | H    | W    |
|-----------------------------------------|-------|------|------|
| 30A (UL TCER 10#)                       | 150.0 | 83.0 | 30.6 |
| 20A (UL TCER 12#)                       | 150.0 | 83.0 | 30.6 |
| 15A (UL TCER 14#)                       | 150.0 | 83.0 | 30.6 |
| 25A (TUV 2pfg 1915 4mm <sup>2</sup> )   | 150.0 | 83.0 | 30.6 |
| 17A (TUV 2pfg 1915 2.5mm <sup>2</sup> ) | 150.0 | 83.0 | 30.6 |

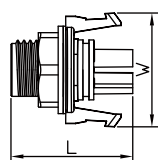
### ⌵ SMC | Receptacle

Panel Cut-Out

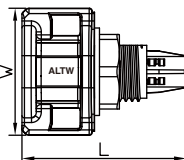


Connector Dimension

(A) Male



(B) Female

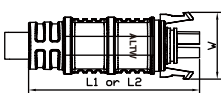


| AMP \ Dimension  | L     |       | W     |       |
|------------------|-------|-------|-------|-------|
| Connector Gender | (B)   | (A)   | (B)   | (A)   |
| 5A (SPS)         | 33.10 | 24.50 | 25.56 | 22.91 |

\* Maximum Panel Thickness: 4.0mm

### ⌵ SMC | Overmolded with Cable

(A) Male



(B) Female



| AMP \ Dimension  | L 1   |       | L2    |       | W     |       |
|------------------|-------|-------|-------|-------|-------|-------|
| Connector Gender | (B)   | (A)   | (B)   | (A)   | (B)   | (A)   |
| 5A (SPS)         | 70.85 | 58.70 | 80.85 | 68.70 | 25.56 | 22.91 |

\* Design and specification are subject to change without notice.

## Contact Configuration

### └ VTC I T-Junction

|       | VTC (Output) |    |      |    |
|-------|--------------|----|------|----|
|       | 3Pin         |    | 4Pin |    |
|       | US           | EU | US   | EU |
| 10#   | ●            |    | ●    |    |
| 12#   | ●            |    | ●    |    |
| 14#   | ●            |    | ●    |    |
| 4.0mm |              | ●  |      |    |
| 2.5mm |              | ●  |      |    |

### └ VTC I SMC

|            | SPS (Input) |                                                                                     |
|------------|-------------|-------------------------------------------------------------------------------------|
|            | 5A          |                                                                                     |
|            | MM or FF    | MF or FM                                                                            |
| 3 Contacts |             |  |
|            |             | R   C                                                                               |
| 4 Contacts |             |  |
|            |             | R   C                                                                               |

**R:** receptacle

**C:** overmolded with cable

● 5A

**Number of Contacts :**

2

Ex.3 contacts (03)

**Connector (Housing) Gender:**

4

Male(M) or Female(F)

**Contact Gender:**

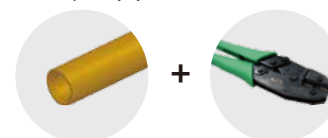
5

Male(M) or Female(F)

**More to Choose:**

6

● Crimped (C)





## Find Our Standard Products

### ⌵ VTC (PT) and SMC (Overmolded with Cable)

## SMC : Overmolded with cable

|                            | Cable type <b>10</b>                                                                        | AMP (Code) | Contacts <b>2</b> | Female Connector (F)<br>Male Contacts (M) |
|----------------------------|---------------------------------------------------------------------------------------------|------------|-------------------|-------------------------------------------|
| US<br>(UL TC-ER cable)     | TCER 18# cable ( <b>T</b> )                                                                 | 5A(SPS)    | 03,04             | SPS- <b>2</b> AFMM-LL7T**                 |
| EU<br>(TUV 2pfg1940 cable) | HAR 0.75 mm <sup>2</sup> cable ( <b>D</b> )<br>1940 0.75 mm <sup>2</sup> cable ( <b>E</b> ) |            | 03                | SPS-03AFMM-LL7 <b>10</b> **               |

## (PT) Trunk Cable with Receptacle

|                            | Wire Size <b>3</b>                                                                       | Contacts <b>2</b> | T-Junction<br>Pitch <b>4</b>                                        | Number of<br>T-Junction<br><b>6</b> | P/N                            |
|----------------------------|------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|-------------------------------------|--------------------------------|
| US<br>(UL TCER cable)      | 10# (30A) ( <b>10</b> )<br>12# (20A) ( <b>12</b> )<br>14# (15A) ( <b>14</b> )            | 03,04             | 1.05M ( <b>105</b> )<br>1.7M ( <b>170</b> )<br>2.05M ( <b>205</b> ) | 001<br>:<br>075                     | PT- <b>2 3 4</b> -00- <b>6</b> |
| EU<br>(TUV 2pfg1940 cable) | 4mm <sup>2</sup> ( <b>4A /4B</b> )<br>(25A)<br>2.5mm <sup>2</sup> ( <b>2A</b> )<br>(17A) | 03                |                                                                     | PT-3- <b>3 4</b> -00- <b>6</b>      |                                |

### ⌵ VTC (PA) and SMC (Receptacle)

## SMC : Receptacle

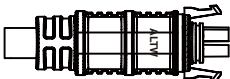
|                            | AMP (Code) | Contacts <b>2</b> | Female Connector (F)<br>Male Contacts (M) |
|----------------------------|------------|-------------------|-------------------------------------------|
| US<br>(UL TC-ER Cable)     | 5A (SPS)   | 03,04             | SPS- <b>2</b> RFMC-LC7001                 |
| EU<br>(TUV 2pfg1940 Cable) |            | 03                | SPS- <b>2</b> RFMC-LC7002                 |

## (PA) Trunk Cable Overmolded With Cable

|                            | Wire Size <b>3</b>                                                                      | Contacts <b>2</b> | T-Junction<br>Pitch <b>4</b>                                        | Number of<br>T-Junction<br><b>6</b> | Drop Cable Length<br>+<br>Cable type <b>5</b> | P/N                                                                                                                                      |
|----------------------------|-----------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| US<br>(UL TCER cable)      | 10# (30A) ( <b>10</b> )<br>12# (20A) ( <b>12</b> )<br>14# (15A) ( <b>14</b> )           | 03,04             | 1.05M ( <b>105</b> )<br>1.7M ( <b>170</b> )<br>2.05M ( <b>205</b> ) | 001<br>.<br>075                     | 0.7M (07)<br>1.0M (10)<br>1.5M (15)           | 18#with SMC Conn.<br>18#without Conn.<br>16#without Conn.<br>14#without Conn.<br>PA- <b>2 3 4</b><br><b>5 6</b>                          |
| EU<br>(TUV 2pfg1940 Cable) | 4mm <sup>2</sup> ( <b>4A/4B</b> )<br>(25A)<br>2.5mm <sup>2</sup> ( <b>2A</b> )<br>(17A) | 03                |                                                                     |                                     |                                               | 0.75mm <sup>2</sup> with SMC Conn.<br>0.75mm <sup>2</sup> without Cor<br>1.0mm <sup>2</sup> without Con<br>PA-3 <b>3 4</b><br><b>5 6</b> |

\* Design and specification are subject to change without notice.

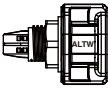
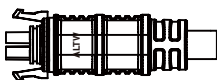
## SMC > In-line

|                                                                                                                                                                                                                                       |                   |                                       |                                                                                                                                                                                                                                |                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Safety Lock (Unlock tool needed)</li> </ul>  |                   |                                       | <b>Overmolded with Cable</b> ----->                                                                                                                                                                                            | <b>Overmolded with Cable</b>                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                       |                   |                                       | <br>Waterproof Cap CAP-WSMMFLA1<br><br>**cable length:01-99m | <br>Waterproof Cap CAP-WSMMMLA1<br><br>**cable length:01-99m |
|                                                                                                                                                                                                                                       | Contacts <b>2</b> | Cable type <b>10</b>                  | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                                      | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                                          |
| 5A(SPS)                                                                                                                                                                                                                               | 03,04             | T-TCER 18# cable (US)                 | SPS- <b>2</b> AMFM-LL7T**                                                                                                                                                                                                      | SPS- <b>2</b> AFMM-LL7T**                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                       | 03                | D-HAR 0.75mm <sup>2</sup> Cable (EU)  | SPS-03AMFM-LL7 <b>10</b> **                                                                                                                                                                                                    | SPS-03AFMM-LL7 <b>10</b> **                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                       |                   | E-1940 0.75mm <sup>2</sup> Cable (EU) |                                                                                                                                                                                                                                |                                                                                                                                                                                                                                    |

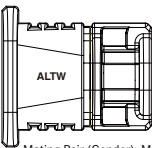
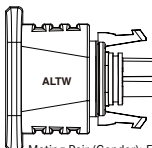
## SMC > Receptacle and Mating Pair

|                                                                                                                                                                                                                                        |                   |                                      |                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Safety Lock (Unlock tool needed)</li> </ul>  |                   |                                      | <b>Receptacle</b> ----->                                                                                                                                                                                 | <b>Overmolded with Cable</b>                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                        |                   |                                      | <br>Waterproof Cap CAP-WSMMFLA1<br> | <br>Waterproof Cap CAP-WSMMMLA1<br><br>**cable length:01-99m |
| AMP (Code)                                                                                                                                                                                                                             | Contacts <b>2</b> | Cable type <b>10</b>                 | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                                             |
| 5A(SPS)                                                                                                                                                                                                                                | 03,04             | T-TCER 18# wire (US)                 | SPS- <b>2</b> RMFC-LC7001                                                                                                                                                                                | SPS- <b>2</b> AFMM-LL7T**                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                        | 03                | D-HAR 0.75mm <sup>2</sup> wire (EU)  | SPS-03RMFC-LC7002                                                                                                                                                                                        | SPS-03AFMM-LL7 <b>10</b> **                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                        |                   | E-1940 0.75mm <sup>2</sup> wire (EU) |                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |

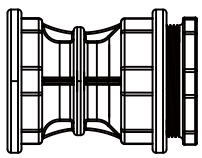
## SMC > Receptacle and Mating Pair

|                                                                                                                                                                                                                                       |                   |                                      |                                                                                                                                                                                          |                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Female Connector (Housing)</li> <li>• Male Contacts</li> <li>• Safety Lock (Unlock tool needed) </li> </ul> |                   |                                      | <b>Receptacle</b> <br> | <b>Overmolded with Cable</b> <br><br>**cable length:01-99m |
| AMP (Code)                                                                                                                                                                                                                            | Contacts <b>2</b> | Cable type <b>10</b>                 | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                                        |
| 5A(SPS)                                                                                                                                                                                                                               | 03,04             | T-TCER 18# wire (US)                 | SPS- <b>2</b> RFMC-LC7001                                                                                                                                                                | SPS- <b>2</b> AMFM-LL7T**                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                       | 03                | D-HAR 0.75mm <sup>2</sup> wire (EU)  | SPS-03RFMC-LC7002                                                                                                                                                                        | SPS-03AMFM-LL7 <b>10</b> **                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                       |                   | E-1940 0.75mm <sup>2</sup> wire (EU) |                                                                                                                                                                                          |                                                                                                                                                                                                                                  |

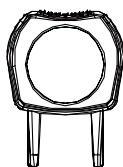
## Accessories > Waterproof Cap

| <br>Mating Pair (Gender): Male Connector |                                      |                      |                      |               | <br>Mating Pair (Gender): Female Connector |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------|----------------------|---------------|------------------------------------------------------------------------------------------------------------------------------|
| Size                                                                                                                       | Mating Pair                          | Mating Pair (Gender) | Mating Style         | Part Number   |                                                                                                                              |
| SMC                                                                                                                        | Receptacle and Overmolded with Cable | Male Connector       | 2 point lock bayonet | CAP-WSMMFLA 1 |                                                                                                                              |
|                                                                                                                            | Receptacle and Overmolded with Cable | Female Connector     | 2 point lock bayonet | CAP-WSMMLA 1  |                                                                                                                              |

## Accessories > End-Cap

|  |               |
|--------------------------------------------------------------------------------------|---------------|
| Cable OD.                                                                            | Part Number   |
| 16~12mm                                                                              | CAP-WTCASMA 1 |
| 12~10mm                                                                              | CAP-WTCASMA2  |
| 10~08mm                                                                              | CAP-WTCASMA3  |

## Accessories > Tool

|  |             |
|-------------------------------------------------------------------------------------|-------------|
| Size                                                                                | Part Number |
| SMC                                                                                 | ULT-SSMC-01 |

# Ordering Information | BMC

1 — 2 3 4 5 6 — 7 8 9 10

## Specification

**(SPB)** Solar Power For Big MC  
 (17A: UL US Market ; 19A: TUV EU Market)

## Number of Contacts

**(3)** 3 Contacts **(4)** 4 Contacts

## Connector Body (Style)

> Overmolded with Cable

**(A)** With Strain Relief

## Connector Housing Gender

**(M)** Male (Plug) **(F)** Female (Socket)

## Contact Gender

**(M)** Male **(F)** Female

## Assemble Style

> Overmolded with Cable

**(M)** Overmolded with Cable

## Mating Style

**(L)** 2 Points Lock (Push & Pull)  
 (With Unlocking Tool)

## Backshell

> Overmolded with Cable

**(L)** Straight

## Waterproof Rating

**(7)** IP 67

## More Information

> For Overmolded with Cable

☐ + ☒ : Cable Type + Cable Length

EX. (C01) = EU Cable For HAR 4mm<sup>2</sup> Cable + 1M

☐ : Cable Type

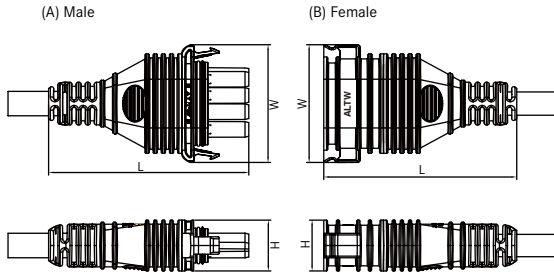
**(R)** UL Cable For TCER 12# Cable From 1M to 99M

**(C)** EU Cable For HAR 4mm<sup>2</sup> Cable EX. (01) = 1M

**(L)** EU Cable For 1940 4mm<sup>2</sup> Cable

## Physical Dimension

### └ BMC | Overmolded with Cable



| Connector Gender | L     |      | W    |      | H    |      |
|------------------|-------|------|------|------|------|------|
|                  | (B)   | (A)  | (B)  | (A)  | (B)  | (A)  |
| 17A (SPB)        | 94.95 | 98.5 | 58.0 | 58.0 | 25.0 | 25.0 |
| 19A (SPB)        | 94.95 | 98.5 | 58.0 | 58.0 | 25.0 | 25.0 |

\* 17A: Comply to UL standard for USA  
19A: Comply to TUV standard for Europe

Dimensions are shown in millimeters

## Contact Configuration

### └ BMC

|            | SPB (Output)                                                                        |          |          |                                                                                    |
|------------|-------------------------------------------------------------------------------------|----------|----------|------------------------------------------------------------------------------------|
|            | 17A                                                                                 |          | 19A      |                                                                                    |
|            | MM or FF                                                                            | MM or FF | MM or FF | MM or FF                                                                           |
| 3 Contacts |   |          |          |  |
|            | C                                                                                   |          |          | C                                                                                  |
| 4 Contacts |  |          |          |                                                                                    |
|            | C                                                                                   |          |          |                                                                                    |

\* 17A: Comply to UL standard for USA  
19A: Comply to TUV standard for Europe

**Number of Contacts :** 2

Ex.3 contacts (03)

**Connector (Housing) Gender:** 4

Male(M) or Female(F)

• For BMC & SMC

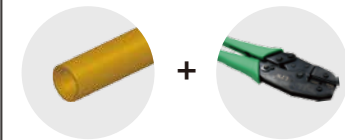
**Contact Gender:** 5

Male(M) or Female(F)

• For BMC & SMC

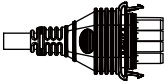
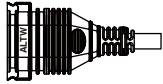
**More to Choose:** 6

• Crimped (C)

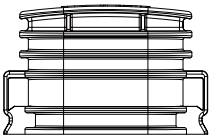
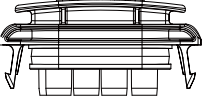


## Find Our Standard Products

### ≧ BMC > Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector (Housing)</li> <li>• Female Contacts</li> <li>• Safety Lock (Unlock tool needed)</li> </ul>  |            |                                       | <b>Receptacle</b> <br><br>**cable length:01-99m | <b>Overmolded with Cable</b> <br><br>**cable length:01-99m |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AMP (Code)                                                                                                                                                                                                                            | Contacts 2 | Cable type 10                         | Male Connector (M)<br>Female Contacts (F)                                                                                                                                                                         | Female Connector (F)<br>Male Contacts (M)                                                                                                                                                                                        |
| 17A(SPB)                                                                                                                                                                                                                              | 03,04      | R-TCER 12# cable (US)                 | SPB-2 AMFM-LL7R**                                                                                                                                                                                                 | SPB-2 AFMM-LL7R**                                                                                                                                                                                                                |
| 19A(SPB)                                                                                                                                                                                                                              | 03         | C-HAR 4.0 mm <sup>2</sup> cable (EU)  | SPB-03AMFM-LL7 10 **                                                                                                                                                                                              | SPB-03AFMM-LL7 10 **                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                       |            | L-1940 4.0 mm <sup>2</sup> cable (EU) |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                  |

### ≧ Accessories > Waterproof Cap

| <br>Mating Pair (Gender): Male Connector |                                      |                      |                      |              | <br>Mating Pair (Gender): Female Connector |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------|----------------------|--------------|------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Size                                                                                                                       | Mating Pair                          | Mating Pair (Gender) | Mating Style         | Part Number  |                                                                                                                              |  |  |  |  |
| BMC                                                                                                                        | Receptacle and Overmolded with Cable | Male Connector       | 2 point lock bayonet | CAP-WBMCFLD1 |                                                                                                                              |  |  |  |  |
|                                                                                                                            | Receptacle and Overmolded with Cable | Female Connector     | 2 point lock bayonet | CAP-WBMCMLD1 |                                                                                                                              |  |  |  |  |

### ≧ Accessories > Tool

|  |             |
|-------------------------------------------------------------------------------------|-------------|
| Size                                                                                | Part Number |
| BMC                                                                                 | ULT-SBMC01  |

\* Design and specification are subject to change without notice.

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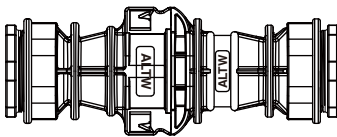
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# Cable Joiner Connector



## Range Overview

Field Installable



° Certificate:  
ETL: UL6703A  
TUV: 2 pfg 1915

M32



M20

## Specification

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| Identifications (Cable OD) | 6~10 mm, 8~10mm, 10~12mm, 12~16mm                     |
| Material                   | M20: Nylon<br>M32: PPE                                |
| Waterproof Rating          | IP67                                                  |
| Temperature Range          | Field Installable: PPE: -40℃~105℃<br>Nylon: -40℃~105℃ |



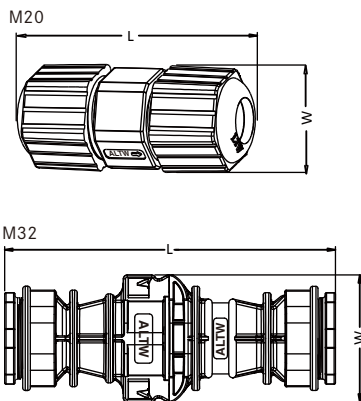
## Ordering Information

| 1                                          | 2 | 3                        | 4 | 5 | 6 | 7 |
|--------------------------------------------|---|--------------------------|---|---|---|---|
| <b>Specification</b>                       |   |                          |   |   |   |   |
| <b>(CX)</b> Cable Joiner                   |   |                          |   |   |   |   |
| <b>No. of Conductor</b>                    |   |                          |   |   |   |   |
| <b>(00)</b> None                           |   | <b>(04)</b> 4 Conductors |   |   |   |   |
| <b>Connector Body (Style)</b>              |   |                          |   |   |   |   |
| <b>(B)</b> For Cable without Strain Relief |   |                          |   |   |   |   |
| <b>AWG (Terminal)</b>                      |   |                          |   |   |   |   |
| <b>(B)</b> 14~16AWG                        |   | <b>(C)</b> 10~12AWG      |   |   |   |   |
| <b>(0)</b> No Terminal                     |   |                          |   |   |   |   |
| <b>Size</b>                                |   |                          |   |   |   |   |
| <b>(M20)</b> M20                           |   |                          |   |   |   |   |
| <b>(M32)</b> M32                           |   |                          |   |   |   |   |
| <b>Waterproof Rating</b>                   |   |                          |   |   |   |   |
| <b>(7)</b> IP 67                           |   |                          |   |   |   |   |
| <b>Jacket OD</b>                           |   |                          |   |   |   |   |
| <b>(001)</b> 12mm~16mm                     |   |                          |   |   |   |   |
| <b>(002)</b> 10mm~12mm                     |   |                          |   |   |   |   |
| <b>(003)</b> 8mm~16mm                      |   |                          |   |   |   |   |

## Physical Dimension

### ▮ Cable Joiner

Connector Dimension



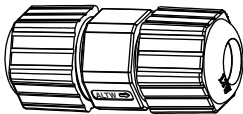
| Size \ Dimension | L     | W    | AWG (Terminal) | Cable OD |
|------------------|-------|------|----------------|----------|
| M20              | 56.0  | 25.4 | -              | 6~10     |
| M32              | 130.2 | 50.0 | -              | 12~16    |
|                  | 130.2 | 50.0 | -              | 10~12    |
|                  | 130.2 | 50.0 | -              | 8~10     |
|                  | 130.2 | 50.0 | 14~16          | 8~10     |
|                  | 130.2 | 50.0 | 10~12          | 12~16    |
|                  | 130.2 | 50.0 | 10~12          | 10~12    |

Dimensions are shown in millimeters

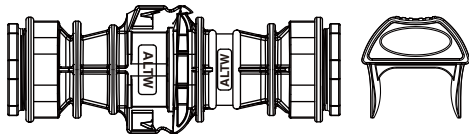
# Find Our Standard Products

## ▮ Cable Joiner

M20



M32



- UV Resistant
- Unlock with tool
- Butt splice terminals optional
- ETL: UL6703A
- TUV: 2 pfg 1915

| Size | Awg (Terminal)       | Part Number      |
|------|----------------------|------------------|
| M20  | Without Terminal (0) | CX-00B0M20-700 1 |
| M32  | 14~16 (B)            | CX-04BBM32-700 1 |
|      | 10~12 (C)            | CX-04BCM32-700*  |
|      | Without Terminal (0) | CX-00B0M32-700*  |

\* M32: Choose Cable OD: 8mm ~10mm / 10mm ~12mm / 12mm ~16mm

## ▮ Accessories > Unlock Tool

Customized – Upon Request

M32- Size

ULT-JOIN01

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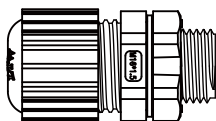
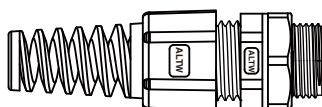
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## Cable Gland

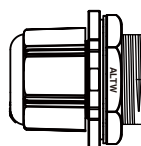


## Range Overview

### └ Plastic Cable Gland



### └ Metal Cable Gland



## Specification

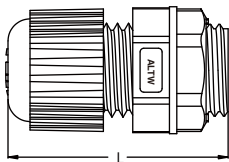
|                          |                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>   | 1"-20 UNF Metal, M8, M12, M16, M20, M25, M32, M40<br>PG7, PG9, PG11, PG13, PG16, PG29                                            |
| <b>Material</b>          | Connector Body (Plastic): Nylon 66, UL Recognized UV Resistant<br>Connector Body (Metal): Zinc Alloy, Nickel plated (1"-20 Only) |
| <b>Waterproof Rating</b> | IP67~68                                                                                                                          |
| <b>Temperature Range</b> | Receptacle: -20°C ~ +105°C                                                                                                       |
| <b>More to know</b>      | Without Strain Relief / With Strain Relief<br>Mating Style: Screw Thread                                                         |

## Ordering Information

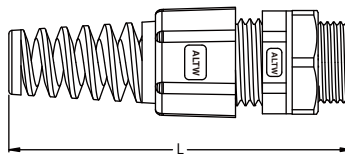
|                              |                     |          |          |
|------------------------------|---------------------|----------|----------|
|                              | <b>1</b>            | <b>2</b> | <b>3</b> |
| <b>Specification</b>         |                     |          |          |
| <b>(CSG) Cable Gland</b>     |                     |          |          |
| <b>Screw Thread Type</b>     |                     |          |          |
| <b>(20E)</b> 1"-20 UNF Metal | <b>(07G)</b> PG7    |          |          |
| <b>(08M)</b> M8              | <b>(09G)</b> PG9    |          |          |
| <b>(12M)</b> M12             | <b>(11G)</b> PG11   |          |          |
| <b>(16M)</b> M16             | <b>(13G)</b> PG13.5 |          |          |
| <b>(20M)</b> M20             | <b>(16G)</b> PG16   |          |          |
| <b>(25M)</b> M25             | <b>(29G)</b> PG29   |          |          |
| <b>(32M)</b> M32             |                     |          |          |
| <b>(40M)</b> M40             |                     |          |          |
| <b>More information</b>      |                     |          |          |
| (001), (002), (003)...       |                     |          |          |

## Physical Dimension

### Without Strain Relief



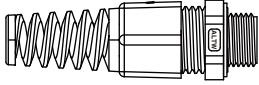
### With Strain Relief



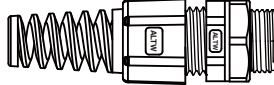
| Size            | Dimension (Without Strain Relief) |        | Dimension (With Strain Relief) |        | Maximum Panel Thickness       |
|-----------------|-----------------------------------|--------|--------------------------------|--------|-------------------------------|
|                 | Short                             | Long   | Short                          | Long   |                               |
| PG7             | -                                 | 30.0mm | -                              | 60.0mm | 3.0mm                         |
| PG9             | -                                 | 45.0mm | -                              | 78mm   | 7.5mm                         |
| PG11            | -                                 | 48.3mm | -                              | 79.1mm | 6.0mm                         |
| PG13            | -                                 | 49.6mm | -                              | 86.6mm | 6.2mm                         |
| PG16            | 45.0mm                            | 49.6mm | 81.6mm                         | 86.6mm | 4.5mm (Short)<br>6.0mm (Long) |
| PG29            | -                                 | 52.5mm | -                              | -      | 6.0mm                         |
| M8              | 22.0 mm                           | -      | -                              | -      | -                             |
| M12             | 30.0 mm                           | 42.2mm | -                              | 60.0mm | 3.0mm                         |
| M16             | 40.0mm                            | 45.0mm | 75.3mm                         | 78.0mm | 3.0mm (Short)<br>7.5mm (Long) |
| M20             | 36.7mm                            | 43.7mm | 79.6 mm                        | 86.6mm | 6.2mm                         |
| M25             | 45.0mm                            | 52.1mm | 89.0 mm                        | 96.0mm | 6.2mm                         |
| M32             | 47.5 mm                           | 52.5mm | -                              | -      | 6.0mm                         |
| M40             | -                                 | 60.0mm | -                              | -      | 9.0mm                         |
| 1"-20 UNF Metal | 35.0mm                            |        | -                              | -      | 5.0mm                         |

## Find Our Standard Products

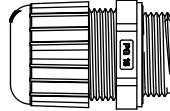
### Plastic Cable Gland



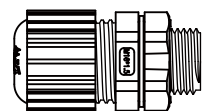
With Strain Relief / Without Screw Nut



With Strain Relief / With Screw Nut



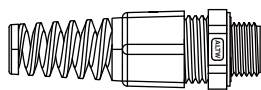
Without Strain Relief / Without Screw Nut



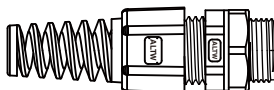
Without Strain Relief / With Screw Nut

| PG Thread | Thread Style | Cable OD  | Part Number            | Cable Information <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|--------------|-----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | PG7          | 4.5~6.5   | CSG-07G00 <sup>3</sup> | 001-Without strain relief ,Black<br>002-Without strain relief ,Gray<br>003-With strain relief ,Black<br>004-With strain relief ,Gray<br>005-Without strain relief ,Gray For Knock Hole                                                                                                                                                                                                                                                 |
|           | PG9          | 6.0~10.0  | CSG-09G00 <sup>3</sup> | 001-Without strain relief ,Black<br>002-Without strain relief ,Gray<br>003-With strain relief ,Black<br>004-With strain relief ,Gray<br>005-Without strain relief ,Gray For Knock Hole                                                                                                                                                                                                                                                 |
|           | PG11         | 6.0~10.0  | CSG-11G00 <sup>3</sup> | 001-Without strain relief ,Black<br>002-Without strain relief ,Gray<br>003-With strain relief ,Black<br>004-With strain relief ,Gray                                                                                                                                                                                                                                                                                                   |
|           | PG13         | 10.0~14.0 | CSG-13G00 <sup>3</sup> | 001-Without strain relief ,Black<br>002-Without strain relief ,Gray<br>003-With strain relief ,Black<br>004-With strain relief ,Gray                                                                                                                                                                                                                                                                                                   |
|           | PG16         | 10.0~14.0 | CSG-16G00 <sup>3</sup> | 001-Without strain relief ,Black (Long Body)<br>002-Without strain relief ,Gray (Long Body)<br>003-With strain relief ,Black (Long Body)<br>004-With strain relief ,Gray (Long Body)<br>006-Without strain relief ,Gray (Short Body),without Screw Nut<br>007-Without strain relief ,Black (Short Body),without Screw Nut<br>008-With strain relief ,Black (Short Body),without Screw Nut<br>009-With strain relief ,Gray (Short Body) |
|           |              | 5.5~7.6   | CSG-16G005             | Without strain relief, without screw nut<br>Black (Short Body) For RJ Cable Use                                                                                                                                                                                                                                                                                                                                                        |
|           |              | Max 6.5   | CSG-16G010             | Without strain relief ,Black (Long Body) For RJ Cable Use                                                                                                                                                                                                                                                                                                                                                                              |
|           | PG29         | 16~22     | CSG-29G00 <sup>3</sup> | 001-Without strain relief ,Black<br>002-Without strain relief ,Gray                                                                                                                                                                                                                                                                                                                                                                    |
|           |              | 18~25     | CSG-29G00 <sup>3</sup> | 003-Without strain relief ,Black<br>004-Without strain relief ,Gray                                                                                                                                                                                                                                                                                                                                                                    |

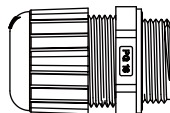
\* Design and specification are subject to change without notice.



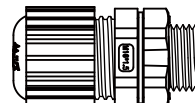
With Strain Relief / Without Screw Nut



With Strain Relief / With Screw Nut



Without Strain Relief / Without Screw Nut

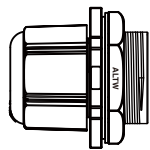


Without Strain Relief / With Screw Nut

|               | Thread Style | Cable OD  | Part Number        | Cable Information <b>3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|--------------|-----------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | M8           | 2.5~3.0   | CSG-08M00 <b>3</b> | 001-Without strain relief,Black<br>002-Without strain relief ,Gray                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Metric Thread | M12          | 4.5~6.5   | CSG-12M00 <b>3</b> | 001-Without strain relief,Black<br>002-Without strain relief ,Gray<br>003-With strain relief ,Black<br>004-With strain relief ,Gray<br>005-Without strain relief ,Black (Short Body),V0 F1<br>006-Without strain relief ,Black (Long Body),V0 F1                                                                                                                                                                                                                                   |
|               | M16          | 6.0~10.0  | CSG-16M00 <b>3</b> | 001-Without strain relief ,Black (Long Body)<br>002-Without strain relief ,Black (Long Body), UV Resistant<br>003-Without strain relief ,Gray (Long Body)<br>004-Without strain relief ,Black (Short Body)<br>005-Without strain relief ,Gray (Short Body)<br>006-With strain relief ,Black (Long Body)<br>007-With strain relief ,Gray (Long Body)<br>008-With strain relief ,Black (Short Body),without Screw Nut<br>009-With strain relief ,Gray (Short Body),without Screw Nut |
|               | M20          | 10.0~14.0 | CSG-20M00 <b>3</b> | 001-Without strain relief ,Black (Long Body)<br>002-Without strain relief ,Black (Short Body),without Screw Nut<br>003-Without strain relief ,Gray (Long Body)<br>004-Without strain relief ,Gray (Short Body),without Screw Nut<br>005-With strain relief ,Black (Long Body)<br>006-With strain relief ,Gray (Long Body)<br>007-With strain relief ,Black (Short Body),without Screw Nut<br>008-With strain relief ,Gray (Short Body),without Screw Nut                           |
|               | M25          | 13.0~18.0 | CSG-25M00 <b>3</b> | 001-Without strain relief ,Gray (Long Body)<br>002-Without strain relief ,Black (Short Body),without Screw Nut<br>003-Without strain relief ,Black (Long Body)<br>004-Without strain relief ,Gray (Short Body),without Screw Nut<br>005-With strain relief ,Black (Long Body)<br>006-With strain relief ,Gray (Long Body)<br>007-With strain relief ,Black (Short Body),without Screw Nut<br>008-With strain relief ,Gray (Short Body),without Screw Nut                           |
|               | M32          | 16.0~22   | CSG-32M00 <b>3</b> | 001-Without strain relief ,Black (Long Body)<br>002-Without strain relief ,Gray (Long Body)<br>003-Without strain relief ,Black (Short Body),without Screw Nut<br>004-Without strain relief ,Gray (Short Body),without Screw Nut                                                                                                                                                                                                                                                   |
|               |              | 18.0~25.0 | CSG-32M00 <b>3</b> | 005-Without strain relief ,Black (Long Body)<br>006-Without strain relief ,Gray (Long Body)<br>007-Without strain relief ,Black (Short Body),without Screw Nut<br>008-Without strain relief ,Gray (Short Body),without Screw Nut                                                                                                                                                                                                                                                   |
|               | M40          | 20~25     | CSG-40M00 <b>3</b> | 001-Without strain relief ,Black (Long Body)<br>002-Without strain relief ,Gray (Long Body)                                                                                                                                                                                                                                                                                                                                                                                        |
|               |              | 24~32     | CSG-40M00 <b>3</b> | 003-Without strain relief ,Black (Long Body)<br>004-Without strain relief ,Gray (Long Body)                                                                                                                                                                                                                                                                                                                                                                                        |



➤ Metal Cable Gland



|  | Thread Style    | Cable OD | Part Number | Cable Information             |
|--|-----------------|----------|-------------|-------------------------------|
|  | 1"-20 UNF Metal | 5.5~7.0  | CSG-20E001  | Without strain relief, Silver |
|  |                 | 7.8~9.3  | CSG-20E002  | Without strain relief, Silver |

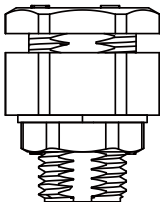
\* Design and specification are subject to change without notice.

# Vent Connector

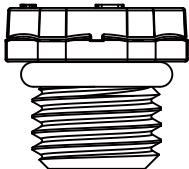


## Range Overview

### Receptacle



M12\*1.25



M12\*1.5

## Ordering Information

1

2

3

**Specification**  
(VENT) Vent

**Type**  
(BD) M12 x 1.25 (BJ) M12 x 1.5

**More Information**  
(001), (002)

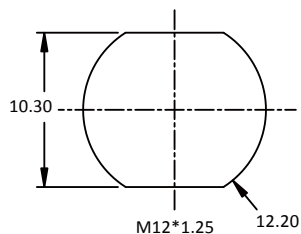
## Specification

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Identifications   | M12 Vent Connector                                                    |
| Material          | PBT+PC (M12 x 1.25) / M-PPE (M12 x 1.5)                               |
| Waterproof Rating | IP67 (M12 x 1.25) / IP69K (M12 x 1.5)                                 |
| Temperature Range | Receptacle: -20°C ~ +105°C (M12 x 1.25)<br>-40°C ~ +105°C (M12 x 1.5) |
| More to know      | Thermal Shock: EIA 364-32 or IEC 60512-11d<br>UV Resistant: F1        |

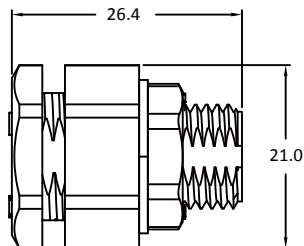
# Physical Dimension

## Receptacle

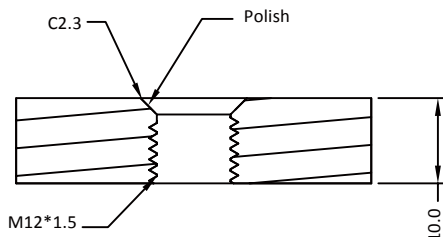
M12\*1.25  
Panel Cut-Out



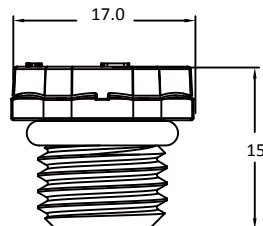
Connector Dimension



M12\*1.5  
Panel Section

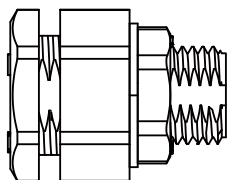


Connector Dimension



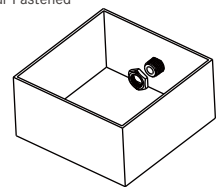
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## Receptacle



M12\*1.25

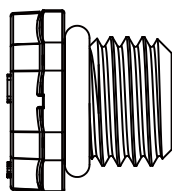
\* Rear Fastened



VENT-BD001  
VENT-BD002

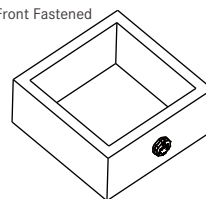
Different air permeability: 1.VENT-BD001:Air permeability: 12sec/100cm<sup>3</sup>  
2.VENT-BD002:Air permeability: 10sec/100cm<sup>3</sup>

## Receptacle



M12\*1.5

\* Front Fastened



VENT-BJ001

Note: VENT-BJ001:Air permeability: 10sec/cm<sup>3</sup>

\* Design and specification are subject to change without notice.

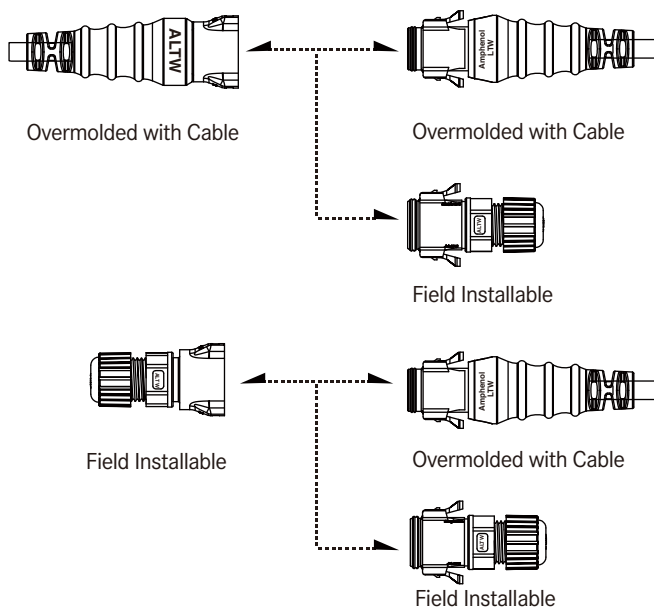
## RBL Connector



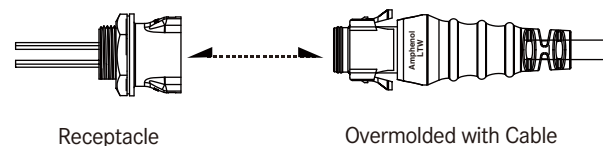
- Haptic
- Blind Mating
- Push-to-Connector
- Easy and Fast Disconnect

## Range Overview

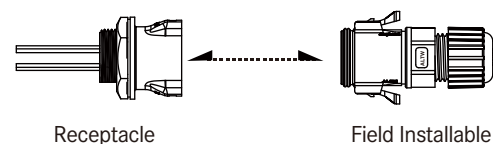
### └ In-line



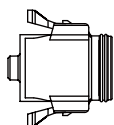
### └ Receptacle and Mating Pair



### └ Receptacle to Field Installable



### └ Accessories



Waterproof Cap  
See page 20-6

## Specification

|                              |                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | C Size (Middle Size: 13/16"-28 UNS)                                                                      |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable                                                 |
| <b>Current Rating / Data</b> | 5A, 10A                                                                                                  |
| <b>Material</b>              | Contacts: Copper Alloy, Tin Plated & Gold Plated (Selective)<br>Connector Body (Housing) : m-PPE,540Z,BK |
| <b>Waterproof Rating</b>     | IP67(Mate Waterproof)                                                                                    |
| <b>Temperature Range</b>     | Receptacle: -40°C ~ +105°C<br>Overmolded with Cable: -20°C~80°C<br>Field Installable: -40°C~ +105°C      |
| <b>Contact Resistance</b>    | ≤ 10mΩ                                                                                                   |
| <b>Insulation Resistance</b> | ≥ 100mΩ at DC500V                                                                                        |
| <b>Durability</b>            | 1000 cycles                                                                                              |
| <b>Breakdown Voltage</b>     | ≥ AC1000V / 1 minute                                                                                     |
| <b>More to know</b>          | Salt Spray Corrosion Test: 4H<br>Standard cable length: 01~99M                                           |

# Ordering Information

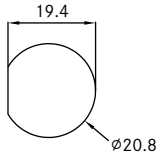
| 1                                                                                                                                      | 2 | 3                                                                                                                                                                                                                 | 4 | 5                                                              | 6 | 7 | 8 | 9 | 10 |
|----------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------|---|---|---|---|----|
| Specification / Current Rating<br><u>&gt;Middle size:13 / 16"-28 UNS</u><br>(SCD) 5A<br>(SCB) 10A                                      |   |                                                                                                                                                                                                                   |   |                                                                |   |   |   |   |    |
| Number of Contacts<br>04, 06<br>EX. (04) = 4 Contacts                                                                                  |   |                                                                                                                                                                                                                   |   |                                                                |   |   |   |   |    |
| Connector Body (Style)<br><u>&gt; For Receptacle</u><br>(R) Rear Fastened                                                              |   | <u>&gt; For Ovremolded with Cable</u><br>(M) With Strain Relief                                                                                                                                                   |   | <u>&gt; For Field installable</u><br>(F) Without Strain Relief |   |   |   |   |    |
| Connector (Housing) Gender<br>(M) Male (F) Female                                                                                      |   |                                                                                                                                                                                                                   |   |                                                                |   |   |   |   |    |
| Contact Gender<br>(S) Male<br>(P) Female                                                                                               |   | * Choose the Plating to Tin or Gold.                                                                                                                                                                              |   |                                                                |   |   |   |   |    |
| Assemble Style<br><u>&gt; For Receptacle</u><br>(S) Solder Type                                                                        |   | <u>&gt; For Overmolded with Cable</u><br>(C) Crimp Type<br><u>&gt; For Field Installable</u><br>(C) Crimp Type                                                                                                    |   |                                                                |   |   |   |   |    |
| Mating Style<br>(R) Snap-in with                                                                                                       |   |                                                                                                                                                                                                                   |   |                                                                |   |   |   |   |    |
| Backshell<br><u>&gt; For Receptacle</u><br>(C) Circular<br>(S) Square Flange                                                           |   | <u>&gt; For Overmolded with Cable</u><br>(L) Straight                                                                                                                                                             |   | <u>&gt; For Field Installable</u><br>(L) Straight              |   |   |   |   |    |
| Waterproof Rating<br>(7) IP 67                                                                                                         |   |                                                                                                                                                                                                                   |   |                                                                |   |   |   |   |    |
| More information<br><u>&gt; For Receptacle with Wirehamess</u><br>(□)+(■) : Wire Type + Wire Length<br>EX. (A10) = UL1015 Wire + 10 CM |   | <u>&gt; For Overmolded with Cable</u><br>(□)+(■) : Cable Type + Cable Length<br>(□) : Cable Type (■) : Cable Length<br>(A) UL2464 Cable From 1M to 99M<br>(B) UL2586 Cable EX.(01) = 1M<br>(C) Power Cable(TC-ER) |   |                                                                |   |   |   |   |    |

## Physical Dimension

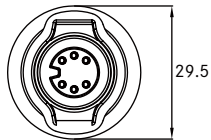
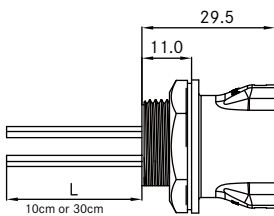
### Receptacle

**A** Backshell: Circular **B** Backshell: Square Flange

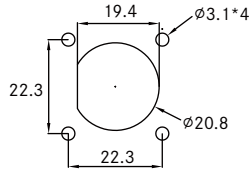
Panel Cut-Out



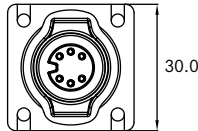
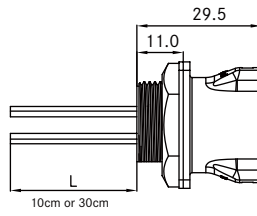
Connector Dimension



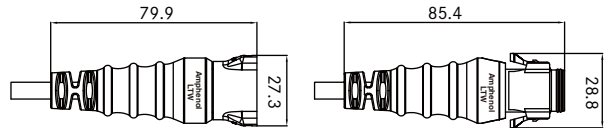
Panel Cut-Out



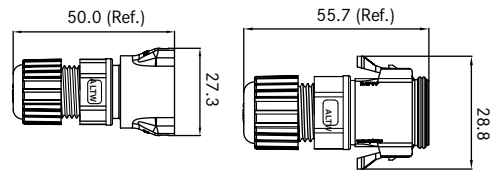
Connector Dimension



### Overmolded with Cable



### Field Installable



## Contact Configuration

|      | Middle Size (C)                                                                     |          |                                                                                     |          |
|------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
|      | 5A                                                                                  |          | 10A                                                                                 |          |
| ④ ⑤  | MM or FF                                                                            | MF or FM | MM or FF                                                                            | MF or FM |
| 2Pin |                                                                                     |          |                                                                                     |          |
| 3Pin |                                                                                     |          |                                                                                     |          |
| 4Pin |                                                                                     |          |  |          |
|      |                                                                                     |          | R C F                                                                               |          |
| 5Pin |                                                                                     |          |                                                                                     |          |
| 6Pin |  |          |                                                                                     |          |
|      | R C F                                                                               |          |                                                                                     |          |

R: receptacle

C: overmolded with cable

F: Field Installable

● 5A (SCD)

● 10A (SCB)

Contact Number:

Contacts (06) , (04)

Connector (Housing) Gender:

Male(M) or Female(F)

Contact Gender:

Male(M) or Female(F)

More to Choose:

● Solder (S)

● Crimp (C)



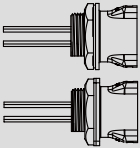
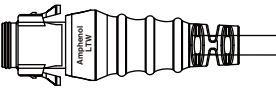
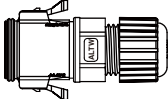
\* More available: 1. The plating to gold or tin  
2. Plated thickness

① — ② ③ ④ ⑤ ⑥ — ⑦ ⑧ ⑨ ⑩

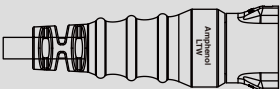
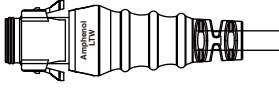
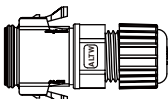
\* Design and specification are subject to change without notice.

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▮ Middle Size: 13/16"-28 UNS > Receptacle and Mating Pair

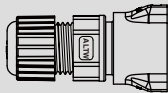
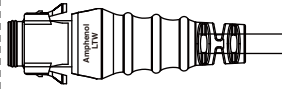
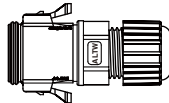
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|---------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>Female Connector</li><li>Snap-in with Latch</li></ul> |          | <p>Receptacle</p>  <p>* Receptacle With Wireharness: A10 - 10cm;<br/>A30 - 30cm<br/>** Choose the cable length:01-99</p> | <p>Overmolded with Cable</p>  <p>** Select cable length from 01~99m</p> | <p>Field Installable</p>  |
| Current Rating<br>(Code)                                                                    | Contacts | Female Connector (F)                                                                                                                                                                                      | Male Connector (M)                                                                                                                                        | Male Connector (M)                                                                                           |
| 5A (SCD)                                                                                    | 06       | SCD-06RFPS-RC**<br>SCD-06RFPS-RS**                                                                                                                                                                        | SCD-06MMSC-RL7A**                                                                                                                                         | SCD-06FMSC-RL7001                                                                                            |
| 10A (SCB)                                                                                   | 04       | SCB-04RFPS-RC**<br>SCB-04RFPS-RS**                                                                                                                                                                        | SCB-04MMSC-RL7A**                                                                                                                                         | SCB-04FMSC-RL7001                                                                                            |

▮ Middle Size: 13/16"-28 UNS > In-line

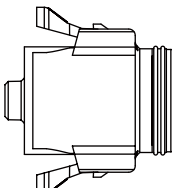
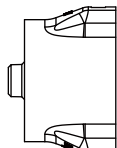
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|---------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>Female Connector</li><li>Snap-in with Latch</li></ul> |          | <p>Overmolded with Cable</p>  <p>** Select cable length from 01~99m</p> | <p>Overmolded with Cable</p>  <p>** Select cable length from 01~99m</p> | <p>Field Installable</p>  |
| Current Rating<br>(Code)                                                                    | Contacts | Female Connector (F)                                                                                                                                       | Male Connector (M)                                                                                                                                          | Male Connector (M)                                                                                             |
| 5A (SCD)                                                                                    | 06       | SCD-06MFPC-RL7A**                                                                                                                                          | SCD-06MMSC-RL7A**                                                                                                                                           | SCD-06FMSC-RL7001                                                                                              |
| 10A (SCB)                                                                                   | 04       | SCB-04MFPS-RS**                                                                                                                                            | SCB-04MMSC-RL7A**                                                                                                                                           | SCB-04FMSC-RL7001                                                                                              |



## Middle Size: 13/16"-28 UNS >In-line

| • Female Connector<br>• Snap-in with Latch |          | Field Installable  | Overmolded with Cable  | Field Installable  |
|--------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|                                            |          | ** Select cable length from 01~99m                                                                  |                                                                                                          |                                                                                                       |
| Current Rating (Code)                      | Contacts | Female Connector (F)                                                                                | Male Connector (M)                                                                                       | Male Connector (M)                                                                                    |
| 5A (SCD)                                   | 06       | SCD-06FFPC-RL7001                                                                                   | SCD-06MMSC-RL7A**                                                                                        | SCD-06FMSC-RL7001                                                                                     |
| 10A (SCB)                                  | 04       | SCB-04FFPC-RL7001                                                                                   | SCB-04MMSC-RL7A**                                                                                        | SCB-04FMSC-RL7001                                                                                     |

## Accessories > Waterproof Cap

| <div>   </div> <div>           Mating Pair (Gender): Female           Mating Pair (Gender): Male         </div> |                                      |                    |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------|----------------|
| 5 Choose Connector Gender Male (M) or Female (F)                                                                                                                                                                                                                                    |                                      |                    |                |
| Size                                                                                                                                                                                                                                                                                | Mating Pair                          | Mating Style       | Part Number    |
| 13/16"-28 UNS                                                                                                                                                                                                                                                                       | Receptacle                           | Snap In With Latch | CAP-WAC 5 RMA1 |
|                                                                                                                                                                                                                                                                                     | Overmolded with Cable                | Snap In With Latch |                |
|                                                                                                                                                                                                                                                                                     | Receptacle and Overmolded with Cable | Snap In With Latch |                |

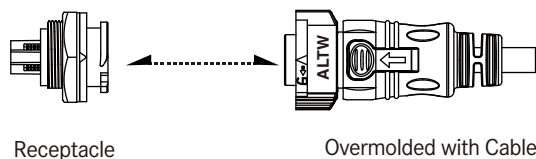
# X-Lok Connector



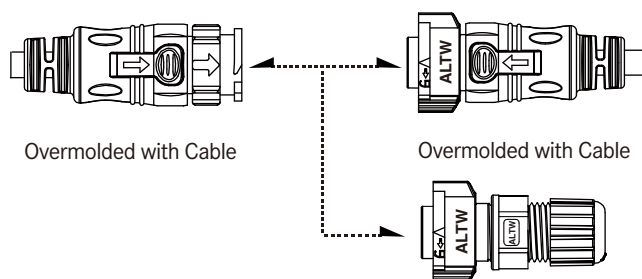
- Haptic
- Blind Mating
- Push-to-Connector
- Easy and Fast Disconnect

## Range Overview

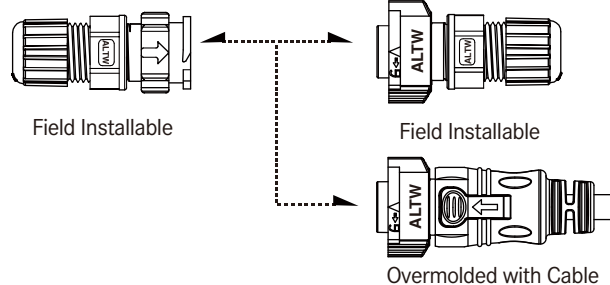
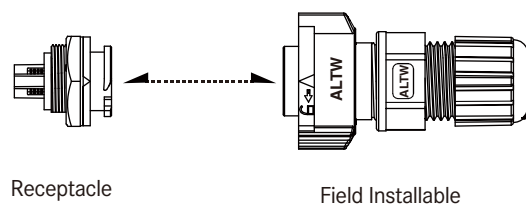
### Receptacle to Overmolded with Cable



### In Line



### Receptacle to Field Installable



## Specification

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Identifications</b>       | C Size (Middle Size: 13/16"-28 UNS)                                                                 |
| <b>Description</b>           | Receptacle<br>Overmolded with Cable<br>Field Installable                                            |
| <b>Current Rating / Data</b> | 20A                                                                                                 |
| <b>Material</b>              | Contacts: Copper Alloy, Tin & Gold Plated<br>Connector Body (Housing) : Nylon+GF, UL Recognized     |
| <b>Waterproof Rating</b>     | IP67                                                                                                |
| <b>Temperature Range</b>     | Receptacle: -40°C ~ +105°C<br>Overmolded with Cable: -20°C~80°C<br>Field Installable: -40°C~ +105°C |
| <b>Contact Resistance</b>    | ≤ 10mΩ                                                                                              |
| <b>Insulation Resistance</b> | ≥ 100mΩ at DC500V                                                                                   |
| <b>Durability</b>            | 500 cycles                                                                                          |
| <b>Breakdown Voltage</b>     | ≥ AC 1600V / 1 minute                                                                               |
| <b>More to know</b>          | Salt Spray Corrosion Test: 12H<br>Standard cable length: 01~99M                                     |

# Ordering Information

1 2 3 4 5 6 7 8 9 10

**Specification / Current Rating**  
**(SCC)** 20A

**Number of Contacts**  
 03  
 EX. **(03)** = 3 Contacts

**Connector Body (Style)**

> For Receptacle  
**(R)** Rear Fastened

> For Overmolded with Cable  
**(M)** With Strain Relief

> For Field installable  
**(F)** Without Strain Relief

**Connector (Housing) Gender**

**(M)** Male Connector    **(F)** Female Connector

**Contact Gender**

**(S)** Male  
**(P)** Female

**Assemble Style**

> For Receptacle  
**(S)** Solder Type

> For Overmolded with Cable  
**(S)** Solder Type  
 > For Field Installable  
**(C)** Crimp Type

**Mating Style**

**(Q)** Push Lock (Sprind loaded nut)

**Backshell**

> For Receptacle  
**(C)** Circular

> For Overmolded with Cable  
**(L)** Straight  
**(R)** Right Angle (Avaible soon)

> For Field Installable  
**(L)** Straight

**Waterproof Rating**

**(7)** IP 67

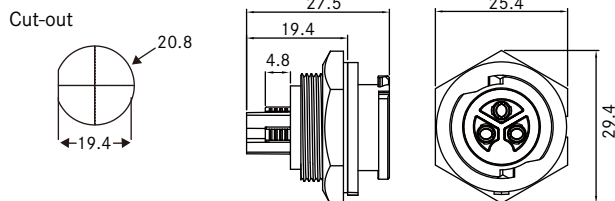
**More Information**

> For Receptacle  
 (001), (002).....  
 Without Cable :  
 Different Versions

> For Overmolded with Cable  
 (□)+(■) : Cable Type + Cable Length  
 EX. **(A01)** = UL2464 Cable + 1M  
 (□) : Cable Type      (■) : Cable Length  
**(A)** UL2464 Cable      From 1M to 99M  
**(B)** UL2586 Cable      EX. **(01)** = 1M  
**(C)** Power Cable(TC-ER)

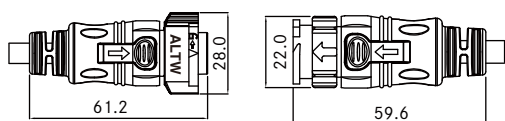
## Physical Dimension

### Receptacle

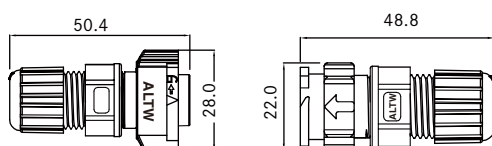


\* Maximum Panel Thickness: 4.2mm | Solder PIN: 12Awg ~ 14Awg

### Overmolded with Cable



### Field Installable



Cable OD Range : 4.0mm ~ 9.6mm  
 Dimensions are shown in millimeters

## Contact Configuration

|       | Middle Size |   |   |          |   |   |
|-------|-------------|---|---|----------|---|---|
|       | 20A         |   |   |          |   |   |
| 4 5   | MM or FF    |   |   | MF or FM |   |   |
| 3 Pin |             |   |   |          |   |   |
|       | R           | C | F | R        | C | F |

**R:** Receptacle

**C:** Overmolded with Cable

**F:** Field Installable

20A (SCC)

1

**Number of Contacts:**

2

Ex.3 contacts (03)

**Connector (Housing) Gender:**

4

Male (M) or Female (F)

**Contact Gender:**

5

Male (S) or Female (P)

**More to Choose:**

6

• Solder (S)

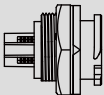
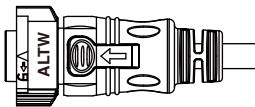
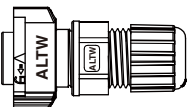


\* More available: 1. The plating to gold or tin  
 2. Plated thickness

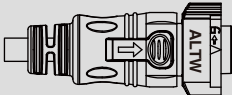
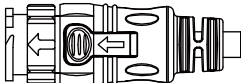
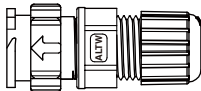
\* Design and specification are subject to change without notice.

## Find Our Standard Products

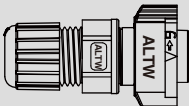
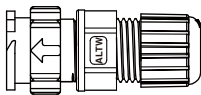
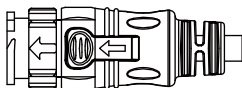
### Receptacle and Mating Pair

| <ul style="list-style-type: none"> <li>• Male Connector</li> <li>• Push Lock (Sprind loaded nut)</li> </ul> |          | <b>Receptacle</b>  | <b>Overmolded with Cable</b>  | <b>Field Installable</b>  |
|-------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|                                                                                                             |          | ** Selecting the cable length:01-99                                                                 |                                                                                                                 |                                                                                                              |
| Current Rating (Code)                                                                                       | Contacts | Male Connector (M)                                                                                  | Female Connector (F)                                                                                            | Female Connector (F)                                                                                         |
| 20A (SCC)                                                                                                   | 03       | SCC- 03RMPS-QC7001                                                                                  | SCC- 03MFSS-QL70**                                                                                              | SCC- 03FFSC-QC7001                                                                                           |

### In-line

| <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Push Lock (Sprind loaded nut)</li> </ul> |          | <b>Overmolded with Cable</b>  | <b>Overmolded with Cable</b>  | <b>Field Installable</b>  |
|---------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|                                                                                                               |          | ** Selecting the cable length:01-99                                                                             |                                                                                                                  |                                                                                                               |
| Current Rating (Code)                                                                                         | Contacts | Female Connector (F)                                                                                            | Male Connector (M)                                                                                               | Male Connector (M)                                                                                            |
| 20A (SCC)                                                                                                     | 03       | SCC- 03MFSS-QL70**                                                                                              | SCC- 03MMPS-QL70**                                                                                               | SCC- 03FMPC-QC7001                                                                                            |

### In-line

| <ul style="list-style-type: none"> <li>• Female Connector</li> <li>• Push Lock (Sprind loaded nut)</li> </ul> |          | <b>Field Installable</b>  | <b>Field Installable</b>  | <b>Overmolded with Cable</b>  |
|---------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                                               |          | ** Selecting the cable length:01-99                                                                          |                                                                                                              |                                                                                                                    |
| Current Rating (Code)                                                                                         | Contacts | Female Connector (F)                                                                                         | Male Connector (M)                                                                                           | Male Connector (M)                                                                                                 |
| 20A (SCC)                                                                                                     | 03       | SCC- 03FFSC-QL7001                                                                                           | SCC- 03FMPC-QC7001                                                                                           | SCC- 03MMPS-QL70**                                                                                                 |

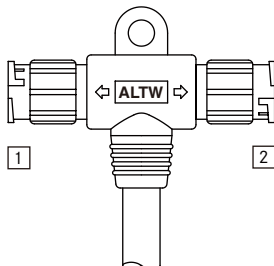
## Accessories Index

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# Accessories - Cable

## ➤ T-Cable > Circular > Standard Size: 5/8"-27 UNS

■ Customized – Upon Request



5 For connector 1  
6 For connector 2

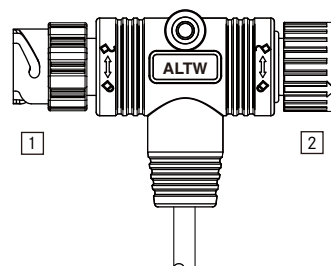
Choose Connector / Contacts Gender:  
M: Male + Male  
F: Female + Female  
H: Male + Female  
B: Female + Male

\* Choose the cable length: 01-99 m /  
PVC UL2464 Cable

| Current Rating | Contacts<br>2        | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options     |
|----------------|----------------------|----------------------|-------------------------------------------------|-----------------------------------------------------|------------------|
|                |                      |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                  |
| 10A            | 02,03,04             | Screw Thread         | BA-2200-MM0-TSA*                                | BA-2200-FF0-TSA*                                    | BA-2200-560-TSA* |
|                |                      | 2 point lock bayonet | BA-2200-MM0-TLA*                                | BA-2200-FF0-TLA*                                    | BA-2200-560-TLA* |
| 5A             | 02,03,04,05,06,07,08 | Screw Thread         | BA-2200-MM0-TSA*                                | BA-2200-FF0-TSA*                                    | BA-2200-560-TSA* |
|                |                      | 2 point lock bayonet | BA-2200-MM0-TLA*                                | BA-2200-FF0-TLA*                                    | BA-2200-560-TLA* |
| 2A             | 10, 12               | Screw Thread         | BA-2200-MM0-TSA*                                | BA-2200-FF0-TSA*                                    | BA-2200-560-TSA* |
|                |                      | 2 point lock bayonet | BA-2200-MM0-TLA*                                | BA-2200-FF0-TLA*                                    | BA-2200-560-TLA* |

## ➤ T-Cable > Circular > Other Size > Mix Size (10A+5A)

■ Customized – Upon Request



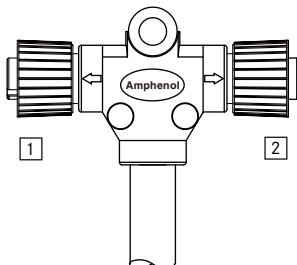
\* Choose the cable length: 01-99 m /  
PVC UL2464 Cable

| Current Rating | Contacts | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | Connector 1<br>(Male Connector / Male Contacts)     |
|----------------|----------|--------------|-------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
|                |          |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) | Connector 2<br>(Female Connector / Female Contacts) |
| 5A             | 08       | Screw Thread | GA-080800-MM0-TSA*                              | GA-080800-FF0-TSA*                                  | GA-080800-MF0-TSA*                                  |



## └ T-Cable > M Series Sensor > M12

Customized – Upon Request



Choose Connector / Contacts Gender:

6

For connector 1

7

For connector 2

A/B/D Code

M: Male + Male

F: Female + Female

I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

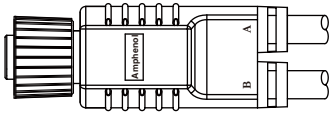
\* Choose the cable length:01-99 m / PVC UL2464 Cable

| Type             |         | Current Rating | Contacts<br>2 | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options       |
|------------------|---------|----------------|---------------|--------------|-------------------------------------------------|-----------------------------------------------------|--------------------|
|                  |         |                |               |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                    |
| M12              | A Code  | 4A             | 03,04,05      | Screw Thread | SS-2200-MM0-TSA*                                | SS-2200-FF0-TSA*                                    | SS-2200-670-TSA*   |
|                  |         | 2A             | 08            |              | SS-080800-MM0-TSA*                              | SS-080800-FF0-TSA*                                  | SS-080800-670-TSA* |
|                  | B Code  | 4A             | 04,05         |              | SB-2200-MM0-TSA*                                | SB-2200-FF0-TSA*                                    | SB-2200-670-TSA*   |
|                  | D Code  | 4A             | 04,05         |              | SD-2200-MM0-TSA*                                | SD-2200-FF0-TSA*                                    | SD-2200-670-TSA*   |
|                  | I Style | 4A             | 05            |              | SI-050500-KK0-TSA*                              | SI-050500-ZZ0-TSA*                                  | SI-050500-670-TSA* |
| M12<br>(Plastic) | A Code  | 4A             | 03,04,05      | Screw Thread | PS-2200-MM0-TSA*                                | PS-2200-FF0-TSA*                                    | PS-2200-670-TSA*   |
|                  |         | 2A             | 08            |              | PS-080800-MM0-TSA*                              | PS-080800-FF0-TSA*                                  | PS-080800-670-TSA* |
|                  | B Code  | 4A             | 04,05         |              | PB-2200-MM0-TSA*                                | PB-2200-FF0-TSA*                                    | PB-2200-670-TSA*   |
|                  | D Code  | 4A             | 04,05         |              | PD-2200-MM0-TSA*                                | PD-2200-FF0-TSA*                                    | PD-2200-670-TSA*   |
|                  | I Style | 4A             | 05            |              | PI-050500-KK0-TSA*                              | PI-050500-ZZ0-TSA*                                  | PI-050500-670-TSA* |

\* Design and specification are subject to change without notice.

Y-Cable > M Series Sensor > M12

Customized – Upon Request

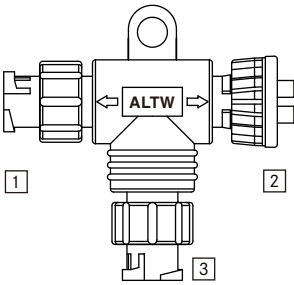


\* Choose the cable length:01-99 m / PU VW-1Cable

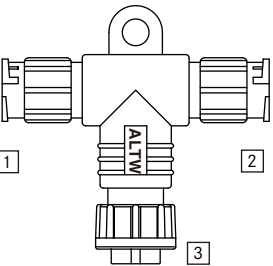
| Type |         | Current Rating | Contacts<br>2 | Mating Style | Connector<br>(Male Connector / Male Contacts) | Connector<br>(Female Connector / Female Contacts) |
|------|---------|----------------|---------------|--------------|-----------------------------------------------|---------------------------------------------------|
| M12  | A Code  | 4A             | 03,04,05      | Screw Thread | SS- 2 0000-M00-YSB*                           | SS- 2 0000-F00-YSB*                               |
|      |         | 2A             | 08            | Screw Thread | SS-080000-M00-YSB*                            | SS-080000-F00-YSB*                                |
|      | B Code  | 4A             | 04,05         | Screw Thread | SB- 2 0000-M00-YSB*                           | SB- 2 0000-F00-YSB*                               |
|      | D Code  | 4A             | 04,05         | Screw Thread | SD- 2 0000-M00-YSB*                           | SD- 2 0000-F00-YSB*                               |
|      | I Style | 4A             | 05            | Screw Thread | SI-050000-K00-YSB*                            | SI-050000-Z00-YSB*                                |

# Accessories - Adaptor

## └ T-Adaptor > Circular > Mini Size: 7/16"-28 UNS

| <div> <div></div> Customized - Upon Request </div> <div>  <div> <div>5</div> For connector 1 </div> <div> <div>6</div> For connector 2 </div> <div> <div>7</div> For connector 3 </div> <div> Choose Connector / Contacts Gender:<br/> M: Male + Male<br/> F: Female + Female </div> </div> |               |                      |                                                 |                                                     |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------|-------------------------------------------------|-----------------------------------------------------|--------------------------|
| Current Rating                                                                                                                                                                                                                                                                                                                                                               | Contacts<br>2 | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options             |
|                                                                                                                                                                                                                                                                                                                                                                              |               |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                          |
|                                                                                                                                                                                                                                                                                                                                                                              |               |                      | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Female Connector / Female Contacts) |                          |
| 5A                                                                                                                                                                                                                                                                                                                                                                           | 02,03         | Screw Thread         | AA- 2 2 2 -MMM-TS001                            | AA- 2 2 2 -FFF-TS001                                | AA- 2 2 2 - 5 6 7 -TS001 |
|                                                                                                                                                                                                                                                                                                                                                                              |               | 2 point lock bayonet | AA- 2 2 2 -MMM-TL001                            | AA- 2 2 2 -FFF-TL001                                | AA- 2 2 2 - 5 6 7 -TL001 |
| 2A                                                                                                                                                                                                                                                                                                                                                                           | 04,05,06      | Screw Thread         | AA- 2 2 2 -MMM-TS001                            | AA- 2 2 2 -FFF-TS001                                | AA- 2 2 2 - 5 6 7 -TS001 |
|                                                                                                                                                                                                                                                                                                                                                                              |               | 2 point lock bayonet | AA- 2 2 2 -MMM-TL001                            | AA- 2 2 2 -FFF-TL001                                | AA- 2 2 2 - 5 6 7 -TL001 |

## └ T-Adaptor > Circular > Standard Size: 5/8"-27 UNS

| <div> <div></div> Customized - Upon Request </div> <div>  <div> <div>5</div> For connector 1 </div> <div> <div>6</div> For connector 2 </div> <div> <div>7</div> For connector 3 </div> <div> Choose Connector / Contacts Gender:<br/> M: Male + Male<br/> F: Female + Female<br/> H: Male + Female<br/> B: Female + Male </div> </div> |                      |                      |                                                 |                                                     |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------------------------------|-----------------------------------------------------|--------------------------|
| Current Rating                                                                                                                                                                                                                                                                                                                                                                                                             | Contacts<br>2        | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options             |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                      | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Female Connector / Female Contacts) |                          |
| 5A                                                                                                                                                                                                                                                                                                                                                                                                                         | 02,03,04,05,06,07,08 | Screw Thread         | BA- 2 2 2 -MMM-TS001                            | BA- 2 2 2 -FFF-TS001                                | BA- 2 2 2 - 5 6 7 -TS001 |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 2 point lock bayonet | BA- 2 2 2 -MMM-TL001                            | BA- 2 2 2 -FFF-TL001                                | BA- 2 2 2 - 5 6 7 -TL001 |
| 2A                                                                                                                                                                                                                                                                                                                                                                                                                         | 10,12                | Screw Thread         | BA- 2 2 2 -MMM-TS001                            | BA- 2 2 2 -FFF-TS001                                | BA- 2 2 2 - 5 6 7 -TS001 |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                      | 2 point lock bayonet | BA- 2 2 2 -MMM-TL001                            | BA- 2 2 2 -FFF-TL001                                | BA- 2 2 2 - 5 6 7 -TL001 |

\* Design and specification are subject to change without notice.

## └ T-Adaptor > M Series Sensor > M12

Customized – Upon Request

Choose Connector / Contacts Gender:

5

For connector 1

6

For connector 2

7

For connector 3

A/B/D Code

M: Male + Male

F: Female + Female

I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

| Type              |         | Current Rating | Contacts<br>2 | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options           |
|-------------------|---------|----------------|---------------|--------------|-------------------------------------------------|-----------------------------------------------------|------------------------|
|                   |         |                |               |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                        |
|                   |         |                |               |              | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Female Connector / Female Contacts) |                        |
| M 12              | A Code  | 4A             | 03,04,05      | Screw Thread | SS- 2 2 2 -MMM-TS001                            | SS- 2 2 2 -FFF-TS001                                | SS- 2 2 2 -5 6 7-TS001 |
|                   |         | 2A             | 08            | Screw Thread | SS-080808-MMM-TS001                             | SS-080808-FFF-TS001                                 | SS-080808-5 6 7-TS001  |
|                   | B Code  | 4A             | 04,05         | Screw Thread | SB- 2 2 2 -MMM-TS001                            | SB- 2 2 2 -FFF-TS001                                | SB- 2 2 2 -5 6 7-TS001 |
|                   | D Code  | 4A             | 04,05         | Screw Thread | SD- 2 2 2 -MMM-TS001                            | SD- 2 2 2 -FFF-TS001                                | SD- 2 2 2 -5 6 7-TS001 |
|                   | I Style | 4A             | 05            | Screw Thread | SI-050505-KKK-TS001                             | SI-050505-ZZZ-TS001                                 | SI-050505-5 6 7-TS001  |
| M 12<br>(Plastic) | A Code  | 4A             | 03,04,05      | Screw Thread | PS- 2 2 2 -MMM-TS001                            | PS- 2 2 2 -FFF-TS001                                | PS- 2 2 2 -5 6 7-TS001 |
|                   |         | 2A             | 08            | Screw Thread | PS-080808-MMM-TS001                             | PS-080808-FFF-TS001                                 | PS-080808-5 6 7-TS001  |
|                   | B Code  | 4A             | 04,05         | Screw Thread | PB- 2 2 2 -MMM-TS001                            | PB- 2 2 2 -FFF-TS001                                | PB- 2 2 2 -5 6 7-TS001 |
|                   | D Code  | 4A             | 04,05         | Screw Thread | PD- 2 2 2 -MMM-TS001                            | PD- 2 2 2 -FFF-TS001                                | PD- 2 2 2 -5 6 7-TS001 |
|                   | I Style | 4A             | 05            | Screw Thread | PI-050505-KKK-TS001                             | PI-050505-ZZZ-TS001                                 | PI-050505-5 6 7-TS001  |

## Y-Adaptor > M Series Sensor > M12

Customized – Upon Request

Choose Connector / Contacts Gender:

5

 For connector 1
 

6

 For connector 2
 

7

 For connector 3

A/B/D Code

M: Male + Male

F: Female + Female

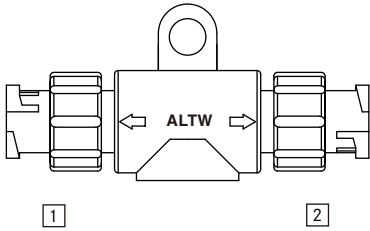
I Style

K: Connector (Male) + Contact (Male+Female)

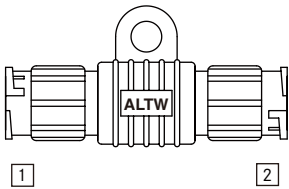
Z: Connector (Female) + Contact (Male+Female)

| Type              |         | Current Rating | Contacts<br>2 | Mating Style | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options        |
|-------------------|---------|----------------|---------------|--------------|-------------------------------------------------|-----------------------------------------------------|---------------------|
|                   |         |                |               |              | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                     |
|                   |         |                |               |              | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Female Connector / Female Contacts) |                     |
| M 12              | A Code  | 4A             | 03,04,05      | Screw Thread | SS-222-MMM-YS001                                | SS-222-FFF-YS001                                    | SS-222-567-YS001    |
|                   |         | 2A             | 08            | Screw Thread | SS-080808-MMM-YS001                             | SS-080808-FFF-YS001                                 | SS-080808-567-YS001 |
|                   | B Code  | 4A             | 04,05         | Screw Thread | SB-222-MMM-YS001                                | SB-222-FFF-YS001                                    | SB-222-567-YS001    |
|                   | D Code  | 4A             | 04,05         | Screw Thread | SD-222-MMM-YS001                                | SD-222-FFF-YS001                                    | SD-222-567-YS001    |
|                   | I Style | 4A             | 05            | Screw Thread | SI-050505-KKK-YS001                             | SI-050505-ZZZ-YS001                                 | SI-050505-567-YS001 |
| M 12<br>(Plastic) | A Code  | 4A             | 03,04,05      | Screw Thread | PS-222-MMM-YS001                                | PS-222-FFF-YS001                                    | PS-222-567-YS001    |
|                   |         | 2A             | 08            | Screw Thread | PS-080808-MMM-YS001                             | PS-080808-FFF-YS001                                 | PS-080808-567-YS001 |
|                   | B Code  | 4A             | 04,05         | Screw Thread | PB-222-MMM-YS001                                | PB-222-FFF-YS001                                    | PB-222-567-YS001    |
|                   | D Code  | 4A             | 04,05         | Screw Thread | PD-222-MMM-YS001                                | PD-222-FFF-YS001                                    | PD-222-567-YS001    |
|                   | I Style | 4A             | 05            | Screw Thread | PI-050505-KKK-YS001                             | PI-050505-ZZZ-YS001                                 | PI-050505-567-YS001 |

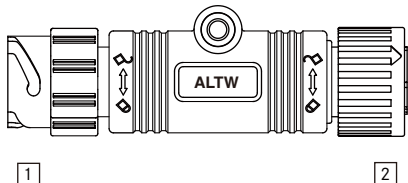
## ➤ I-Adaptor > Circular > Mini Size: 7/16"-28 UNS

| <div> <div></div> Customized – Upon Request </div> <div>  <div> <div>6</div> For connector 1<br/> <div>7</div> For connector 2 </div> <div> Choose Connector / Contacts Gender:<br/> M: Male + Male<br/> F: Female + Female </div> </div> |               |                      |                                                 |                                                     |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------|
| Current Rating                                                                                                                                                                                                                                                                                                             | Contacts<br>3 | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options            |
|                                                                                                                                                                                                                                                                                                                            |               |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                         |
| 5A                                                                                                                                                                                                                                                                                                                         | 02,03         | Screw Thread         | AA-00 3 3 -OMM-IS001                            | AA-00 3 3 -OFF-IS001                                | AA-00 3 3 -0 6 7 -IS001 |
|                                                                                                                                                                                                                                                                                                                            |               | 2 point lock bayonet | AA-00 3 3 -OMM-IL001                            | AA-00 3 3 -OFF-IL001                                | AA-00 3 3 -0 6 7 -IL001 |
| 2A                                                                                                                                                                                                                                                                                                                         | 04,05,06      | Screw Thread         | AA-00 3 3 -OMM-IS001                            | AA-00 3 3 -OFF-IS001                                | AA-00 3 3 -0 6 7 -IS001 |
|                                                                                                                                                                                                                                                                                                                            |               | 2 point lock bayonet | AA-00 3 3 -OMM-IL001                            | AA-00 3 3 -OFF-IL001                                | AA-00 3 3 -0 6 7 -IL001 |

## ➤ I-Adaptor > Circular > Standard Size: 5/8"-27 UNS

| <div> <div></div> Customized – Upon Request </div> <div>  <div> <div>6</div> For connector 1<br/> <div>7</div> For connector 2 </div> <div> Choose Connector / Contacts Gender:<br/> M: Male + Male<br/> F: Female + Female<br/> H: Male + Female<br/> B: Female + Male </div> </div> |                              |                      |                                                 |                                                     |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|-------------------------------------------------|-----------------------------------------------------|-------------------------|
| Current Rating                                                                                                                                                                                                                                                                                                                                                           | Contacts<br>3                | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | More options            |
|                                                                                                                                                                                                                                                                                                                                                                          |                              |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) |                         |
| 5A                                                                                                                                                                                                                                                                                                                                                                       | 02,03,04,<br>05,06,07,<br>08 | Screw Thread         | BA-00 3 3 -OMM-IS001                            | BA-00 3 3 -OFF-IS001                                | BA-00 3 3 -0 6 7 -IS001 |
|                                                                                                                                                                                                                                                                                                                                                                          |                              | 2 point lock bayonet | BA-00 3 3 -OMM-IL001                            | BA-00 3 3 -OFF-IL001                                | BA-00 3 3 -0 6 7 -IL001 |
| 2A                                                                                                                                                                                                                                                                                                                                                                       | 10, 12                       | Screw Thread         | BA-00 3 3 -OMM-IS001                            | BA-00 3 3 -OFF-IS001                                | BA-00 3 3 -0 6 7 -IS001 |
|                                                                                                                                                                                                                                                                                                                                                                          |                              | 2 point lock bayonet | BA-00 3 3 -OMM-IL001                            | BA-00 3 3 -OFF-IL001                                | BA-00 3 3 -0 6 7 -IL001 |

## └ I-Adaptor > Circular > Other Size > Mix Size (10A+5A)

|                                                                                                |          |                      |                                                 |                                                     |                                                     |
|------------------------------------------------------------------------------------------------|----------|----------------------|-------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| <div>  </div> |          |                      |                                                 |                                                     |                                                     |
| Current Rating                                                                                 | Contacts | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts) | Connector 1<br>(Female Connector / Female Contacts) |
|                                                                                                |          |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Female Connector / Female Contacts) | Connector 1<br>(Male Connector / Male Contacts)     |
| 5A                                                                                             | 08       | 3 point lock bayonet | GA-000808-0MM-IT001                             | GA-000808-OFF-IT001                                 | GA-000808-0FM-IT001                                 |

## └ I-Adaptor > M Series Sensor > M12

Customized – Upon Request

Choose Connector / Contacts Gender:

6

 For connector 1
 

7

 For connector 2

A/B/D Code

M: Male + Male

F: Female + Female

I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

\* M12

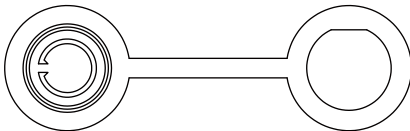
| Type             | Current Rating | Contacts<br>3 | Mating Style | Connector 1<br>(Male Connector / Male Contacts)<br>Connector 2<br>(Male Connector / Male Contacts) | Connector 1<br>(Female Connector / Female Contacts)<br>Connector 2<br>(Female Connector / Female Contacts) | More options        |                                            |
|------------------|----------------|---------------|--------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------|
| M12              | A Code         | 4A            | 03,04,05     | Screw Thread                                                                                       | SS-0033-0MM-IS001                                                                                          | SS-0033-OFF-IS001   | SS-0033-067-IS001                          |
|                  |                | 2A            | 08           | Screw Thread                                                                                       | SS-000808-0MM-IS001                                                                                        | SS-000808-OFF-IS001 | SS-000808-067-IS001                        |
|                  | B Code         | 4A            | 04,05        | Screw Thread                                                                                       | SB-0033-0MM-IS001                                                                                          | SB-0033-OFF-IS001   | SB-0033-067-IS001                          |
|                  | D Code         | 4A            | 04,05        | Screw Thread                                                                                       | SD-0033-0MM-IS001                                                                                          | SD-0033-OFF-IS001   | SD-0033-067-IS001                          |
|                  | I Style        | 4A            | 05           | Screw Thread                                                                                       | SI-000505-0KK-IS001                                                                                        | SI-000505-0ZZ-IS001 | SI-000505-0KZ-IS001<br>SI-000505-0ZK-IS001 |
| M12<br>(Plastic) | A Code         | 4A            | 03,04,05     | Screw Thread                                                                                       | PS-0033-0MM-IS001                                                                                          | PS-0033-OFF-IS001   | PS-0033-067-IS001                          |
|                  |                | 2A            | 08           | Screw Thread                                                                                       | PS-000808-0MM-IS001                                                                                        | PS-000808-OFF-IS001 | PS-000808-067-IS001                        |
|                  | B Code         | 4A            | 04,05        | Screw Thread                                                                                       | PB-0033-0MM-IS001                                                                                          | PB-0033-OFF-IS001   | PB-0033-067-IS001                          |
|                  | D Code         | 4A            | 04,05        | Screw Thread                                                                                       | PD-0033-0MM-IS001                                                                                          | PD-0033-OFF-IS001   | PD-0033-067-IS001                          |
|                  | I Style        | 4A            | 05           | Screw Thread                                                                                       | PI-000505-0KK-IS001                                                                                        | PI-000505-0ZZ-IS001 | PI-000505-0KZ-IS001<br>PI-000505-0ZK-IS001 |

\* Design and specification are subject to change without notice.

# Accessories - Cap

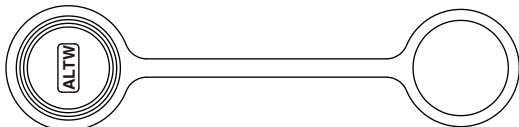
Dust Cap >Circular

Customized – Upon Request



\* Mini Size | Standard Size | Middle Size | Large Size

\* With Rubber Lead



\* Mix Size

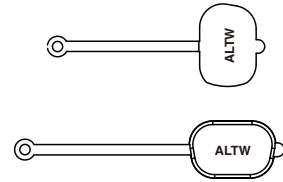
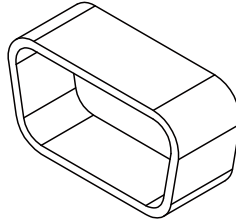
\* With Rubber Lead

| Size                         | Mating Pair           | Mating Pair (Gender) | P/N                                             |
|------------------------------|-----------------------|----------------------|-------------------------------------------------|
| Mini Size<br>7/16"-28 UNS    | Receptacle            | Male                 | CAP-DAAMDPC 1                                   |
| Standard Size<br>5/8"-27 UNS | Receptacle            | Male                 | CAP-DABMDPC 1<br>CAP-DABMDPC 2<br>CAP-DABMDPC 3 |
|                              |                       | Female               | -                                               |
|                              | Overmolded with Cable | Male                 | CAP-DABMDCC 1<br>CAP-DABMDCC 2                  |
|                              |                       | Female               | CAP-DABFDCC 1                                   |
| Middle Size<br>13/16"-28 UNS | Receptacle            | Male                 | CAP-DACMDPC 1<br>CAP-DACMDPC 2                  |
|                              | Overmolded with Cable | Female               | CAP-DACFDCC 1                                   |
| Large Size<br>1"-20 UNEF     | Receptacle            | Male                 | CAP-DADMDPC 1                                   |
| Mix Size 12-5A               | Receptacle            | Male                 | CAP-DPLMDPC 1                                   |



## ▾ Dust Cap > D-SUB > Standard & High Density

■ Customized – Upon Request

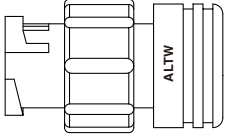
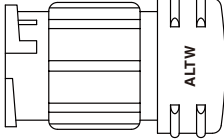
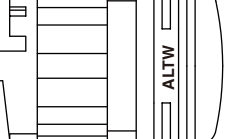


\*Choose rubber lead: Vertical type (1) / Horizontal type (2)

| Type               |                        | Mating Pairs                                                                     | Mating Pair (Gender) | P/N                            |
|--------------------|------------------------|----------------------------------------------------------------------------------|----------------------|--------------------------------|
| Standard D-SUB     | High Density D-SUB     |                                                                                  |                      |                                |
| Standard (9 pins)  | High Density (15 Pins) | Receptacle<br>(With horizontal rubber lead)                                      | Male                 | CAP-DD1MDPC2                   |
|                    |                        | Receptacle and Overmolded with Cable<br>(With horizontal / Vertical rubber lead) |                      | CAP-DD1MDMA1                   |
|                    |                        | Receptacle                                                                       | Female               | CAP-DD1FDPC1*<br>CAP-DD1FDPC2* |
|                    |                        | Receptacle and Overmolded with Cable                                             |                      | CAP-DD1FDMA1                   |
| Standard (15 pins) | High Density (26 Pins) | Receptacle and Overmolded with Cable                                             | Male                 | CAP-DD2MDMA1                   |
|                    |                        | Receptacle and Overmolded with Cable                                             | Female               | CAP-DD2FDMA1                   |
| Standard (25 pins) | High Density (44 Pins) | Receptacle and Overmolded with Cable                                             | Male                 | CAP-DD3MDMA1                   |
|                    |                        | Receptacle<br>(With horizontal rubber lead)                                      | Female               | CAP-DD3FDPC1                   |
|                    |                        | Receptacle and Overmolded with Cable                                             |                      | CAP-DD3FDMA1                   |

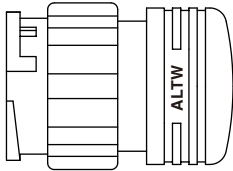
\* Design and specification are subject to change without notice.

## Waterproof Cap > Circular

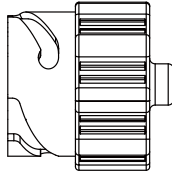
| Customized – Upon Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                      |                      |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------|----------------------|-----------------|
| <div>    </div> <div> <p>* Mini Size</p> <p>* Standard Size</p> <p>* Middle Size</p> </div> <div> <p>Choose Connector / Contacts Gender:</p> <p>6 More to choose: None(A) / With Chain(B) / With Rubber Lead(C) / With Fish Line(D)</p> <p>7 * Mini Size: Choose 2 contacts(1) / 3 contacts(3) / 4~6 contacts(2) for male mating pair</p> <p>* Standard Size: Choose 12 contacts (2) for male mating pair</p> <p>* Middle Size: Choose plastic(1) or metal(2) items</p> </div> |                                      |                      |                      |                 |
| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mating Pair                          | Mating Style         | Mating Pair (Gender) | P/N             |
| Mini Size<br>7/16"-28 UNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Receptacle                           | Screw Thread         | Male                 | CAP-WAAMSP 6 1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Male                 | CAP-WAAMLMP 6 7 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Female               | CAP-WAAFLP 6 7  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Overmolded with Cable                | Screw Thread         | Male                 | CAP-WAAMSMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Male                 | CAP-WAAMLMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Female               | CAP-WAAFLMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Receptacle and Overmolded with Cable | Screw Thread         | Male                 | CAP-WAAMSMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Male                 | CAP-WAAMLMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Female               | CAP-WAAFLMA 7   |
| Standard Size<br>5/8"-27 UNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Receptacle                           | Screw Thread         | Male                 | CAP-WABMSP 6 1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Female               | CAP-WABFSP 6 1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Male                 | CAP-WABMLP 6 7  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Overmolded with Cable                | Screw Thread         | Female               | CAP-WABFLP 6 7  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Male                 | CAP-WABMSMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Female               | CAP-WABFSMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Male                 | CAP-WABMLMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Receptacle and Overmolded with Cable | Screw Thread         | Female               | CAP-WABFLMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Male                 | CAP-WABMSMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Female               | CAP-WABFSMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Male                 | CAP-WABMLMA 7   |
| Middle Size<br>13/16"-28 UNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Receptacle                           | Screw Thread         | Male                 | CAP-WACMSP 6 7  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Male                 | CAP-WACMLP 6 1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Female               | CAP-WACFLP 6 1  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Overmolded with Cable                | Screw Thread         | Male                 | CAP-WACMSMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Male                 | CAP-WACMLMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Female               | CAP-WACFLMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Receptacle and Overmolded with Cable | Screw Thread         | Male                 | CAP-WACMSMA 7   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | 2 point lock bayonet | Male                 | CAP-WACMLMA1    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |                      | Female               | CAP-WACFLMA1    |

## Waterproof Cap > Circular

Customized – Upon Request



\* Large Size



\* Mix Size

6 More to choose: None(A) / With Chain(B) / With Rubber Lead(C) / With Fish Line(D)

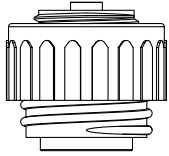
7 \* Large Size: Choose 18 contacts(2) for female mating pair

| Size                                            | Mating Pair                             | Mating Style         | Mating Pair (Gender) | P/N            |
|-------------------------------------------------|-----------------------------------------|----------------------|----------------------|----------------|
| Large Size<br>1"-20 UNEF                        | Receptacle                              | Screw Thread         | Male                 | CAP-WADMSP 6 1 |
|                                                 |                                         | 2 point lock bayonet | Male                 | CAP-WADMLP 6 7 |
|                                                 |                                         |                      | Female               | CAP-WADFLP 6 7 |
|                                                 | Overmolded with Cable                   | Screw Thread         | -                    | -              |
|                                                 |                                         | 2 point lock bayonet | -                    | -              |
|                                                 | Receptacle and<br>Overmolded with Cable | Screw Thread         | Male                 | CAP-WADMSMA1   |
|                                                 |                                         | 2 point lock bayonet | Male                 | CAP-WADMLMA 7  |
|                                                 |                                         |                      | Female               | CAP-WADFLMA 7  |
| Mix Size<br>(Between Standard<br>& Middle Size) | Receptacle                              | 3 Points Lock        | Male                 | CAP-WEBMLP 6 1 |
|                                                 |                                         |                      | Female               | CAP-WEBFLP 6 1 |
|                                                 | Receptacle and<br>Overmolded with Cable | 3 Points Lock        | Male                 | CAP-WEBMLMA1   |
|                                                 |                                         |                      | Female               | CAP-WEBFLMA1   |

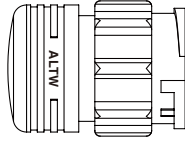
\* Design and specification are subject to change without notice.

## Waterproof Cap > Power

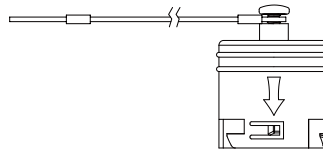
Customized – Upon Request



\* 8A (PWE) | 12A (PWF) | 16A (PWG)



\* 20A (PWC) | 20A+2A (PWCU)



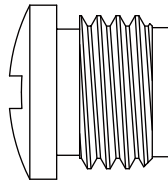
\* 25A (PWH) | 30A (PWJ)

6 More to choose: None(A) / With Chain(B) /  
With Rubber Lead(C) / With Fish Line(D)

| Current Rating | Mating Pair                          | Mating Style         | Mating Pair (Gender) | P/N            |
|----------------|--------------------------------------|----------------------|----------------------|----------------|
| 8A(PWE)        | Receptacle                           | Screw Thread         | Male                 | CAP-WTAMSP 6 1 |
|                | Receptacle and Overmolded with Cable |                      | Female               | CAP-WTAFSP 6 1 |
|                |                                      |                      | Male                 | CAP-WTAMSMA1   |
|                |                                      |                      | Female               | CAP-WTAFSMA1   |
| 12A(PWF)       | Receptacle                           | Screw Thread         | Male                 | CAP-WTAMSP 6 1 |
|                | Receptacle and Overmolded with Cable |                      | Female               | CAP-WTAFSP 6 1 |
|                |                                      |                      | Male                 | CAP-WTAMSMA1   |
|                |                                      |                      | Female               | CAP-WTAFSMA1   |
| 16A(PWG)       | Receptacle                           | Screw Thread         | Male                 | CAP-WTAMSP 6 1 |
|                | Receptacle and Overmolded with Cable |                      | Female               | CAP-WTAFSP 6 1 |
|                |                                      |                      | Male                 | CAP-WTAMSMA1   |
|                |                                      |                      | Female               | CAP-WTAFSMA1   |
| 20A(PWC)       | Receptacle                           | 2 point lock bayonet | Male                 | CAP-WACMLP 6 1 |
|                | Receptacle and Overmolded with Cable |                      |                      | CAP-WACMLMA1   |
|                | Receptacle and Overmolded with Cable |                      | Female               | CAP-WACFLMA2   |
| 20A+2A(PWCU)   | Receptacle                           | 2 point lock bayonet | Male                 | CAP-WACMLP 6 1 |
|                | Receptacle and Overmolded with Cable |                      |                      | CAP-WACMLMA1   |
|                | Receptacle and Overmolded with Cable |                      | Female               | CAP-WACFLMA2   |
| 25A(PWH)       | Receptacle and Overmolded with Cable | 3 point lock bayonet | Female               | CAP-WPWFTMD1   |
| 30A(PWJ)       | Receptacle and Overmolded with Cable | 3 point lock bayonet | Male                 | CAP-WPWMTMD1   |

## Waterproof Cap > Sensor > M8

Customized – Upon Request

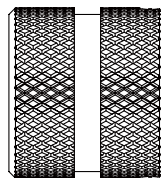


For Female

| Size | Mating Pair                          | Mating Style | Mating Pair (Gender) | P/N          |
|------|--------------------------------------|--------------|----------------------|--------------|
| M8   | Overmolded with Cable                | Screw Thread | Female               | CAP-WBBFSCC1 |
|      | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBBMSMA1 |
|      |                                      |              | Female               | CAP-WBBFSMA1 |

## Waterproof Cap > Sensor > M10.5

Customized – Upon Request



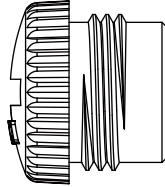
For male

| Size   | Mating Pair                          | Mating Style | Mating Pair (Gender) | P/N          |
|--------|--------------------------------------|--------------|----------------------|--------------|
| M 10.5 | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBCMSMA2 |

\* Design and specification are subject to change without notice.

## Waterproof Cap > Sensor > M12

Customized – Upon Request

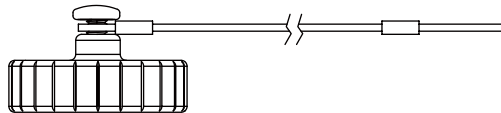


7 Choose plastic(1) or metal(2) items

| Size         | Size               | Mating Pair                          | Mating Style | Mating Pair (Gender) | P/N           |
|--------------|--------------------|--------------------------------------|--------------|----------------------|---------------|
| M12          | A/B/D Code I Style | Receptacle                           | Screw Thread | Male                 | CAP-WBDPMSB1  |
|              |                    | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBDMSMA 7 |
|              |                    |                                      |              | Female               | CAP-WBDFSMA 7 |
| M12(Plastic) | A/B/D Code I Style | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBDMSMA 7 |
|              |                    |                                      |              | Female               | CAP-WBDFSMA 7 |

## Waterproof Cap > Sensor > Heavy Duty Shielded Connectors

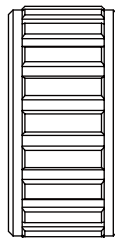
Customized – Upon Request



| Size | Mating Pair | Mating Style | Mating Pair (Gender) | P/N          |
|------|-------------|--------------|----------------------|--------------|
| M22  | Receptacle  | Screw Thread | Male                 | CAP-WHBMSPD1 |

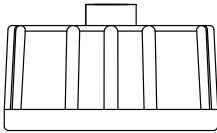
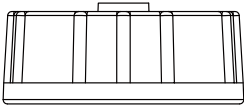
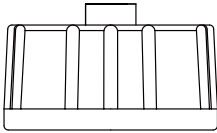
## Waterproof Cap > Sensor > M23

Customized – Upon Request

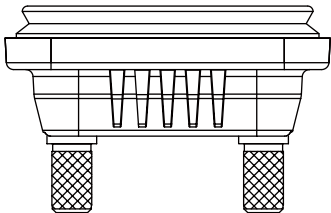


| Size | Mating Pair                          | Mating Style | Mating Pair (Gender) | P/N          |
|------|--------------------------------------|--------------|----------------------|--------------|
| M23  | Receptacle and Overmolded with Cable | Screw Thread | Male                 | CAP-WBHMSMA1 |

## Waterproof Cap > USB | IEEE 1394

| <div>     </div> <div> <p>* USB Screw (Mating Pair: Male)</p> <p>* USB Lock</p> <p>* USB Screw (Mating Pair: Female)</p> <p>* IEEE 1394</p> </div> <div> <p>6 More to choose: None(A) / With Chain(B) / With Rubber Lead(C) / With Fish Line(D)</p> </div> |                                      |                      |                      |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------|----------------------|----------------|
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mating Pair                          | Mating Style         | Mating Pair (Gender) | P/N            |
| USB 2.0 Type A<br>USB 2.0 Type B<br>USB 3.0 Type A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Receptacle                           | Screw Thread         | Male                 | CAP-WACMSP 6 1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      | 2 point lock bayonet | Male                 | CAP-WADMLP 6 1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Receptacle and Overmolded with Cable | Screw Thread         | Male                 | CAP-WACMSMA1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      | 2 point lock bayonet | Male                 | CAP-WADMLMA1   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Overmolded with Cable                | Screw Thread         | Female               | CAP-WUSFSCC1   |
| IEEE 1394                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Receptacle                           | Screw Thread         | Male                 | CAP-WACMSP 6 1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Receptacle and Overmolded with Cable | Screw Thread         | Male                 | CAP-WACMSMA1   |

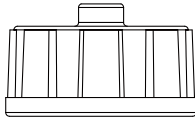
## Waterproof Cap > D-SUB | DVI

| <div>  </div> <div> <p>7 Choose rubber lead: Vertical type (1) / Horizontal type (2)</p> </div> |                        |              |              |                      |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|--------------|----------------------|--------------|
| Type                                                                                                                                                                               |                        | Mating Pairs | Mating Style | Mating Pair (Gender) | P/N          |
| Standard D-SUB                                                                                                                                                                     | High Density D-SUB     |              |              |                      |              |
| Standard (9 pins)                                                                                                                                                                  | High Density (15 Pins) | Receptacle   | Screw Thread | Male & Female        | CAP-WD1CSPA1 |
| Standard (15 pins)                                                                                                                                                                 | High Density (26 Pins) | Receptacle   | Screw Thread | Male & Female        | CAP-WD2CSPA1 |
| Standard (25 pins)                                                                                                                                                                 | High Density (44 Pins) | Receptacle   | Screw Thread | Male & Female        | CAP-WD3CSPA1 |
| DVI                                                                                                                                                                                |                        | Receptacle   | Screw Thread | Male & Female        | CAP-WDVCSPA1 |

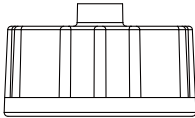
\* Design and specification are subject to change without notice.

Waterproof Cap > RJ

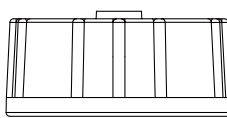
Customized – Upon Request



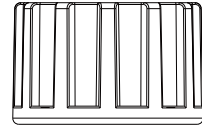
\* RJ C 3 Point Lock



\* RJ C Screw



\* RJ D Screw

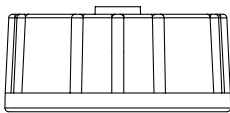


\* RJ ODVA 3 Point Lock

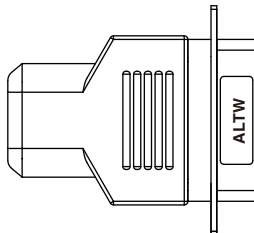
- 6 More to choose: None(A) / With Chain(B)  
/ With Rubber Lead(C) / With Fish Line(D)  
7 Choose plastic (1) or metal (2) items

| Size   | Mating Pair | Mating Style         | Mating Pair (Gender) | P/N                             |
|--------|-------------|----------------------|----------------------|---------------------------------|
| C Size | Receptacle  | 3 point lock bayonet | Male                 | CAP-WACMTMA1<br>CAP-WACMTP 6 1  |
|        |             | Screw Thread         | Male                 | CAP-WACMSMA 7<br>CAP-WACMSP 6 7 |
| D Size | Receptacle  | Screw Thread         | Male                 | CAP-WADMSMA1<br>CAP-WADMSP 6 1  |
| ODVA   | Receptacle  | 3 point lock bayonet | Male                 | CAP-WEOFTPC1                    |

Waterproof Cap > HDMI



\* D Size (Circular Type)



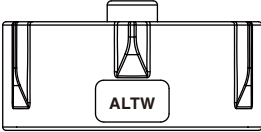
\* Rectangle Type

| Size                   | Mating Pair | Mating Style | Mating Pair (Gender) | P/N          |
|------------------------|-------------|--------------|----------------------|--------------|
| D Size (Circular Type) | Receptacle  | Screw Thread | Male                 | CAP-WADMSMA1 |
| Rectangle Type         | Receptacle  | Latch Type   | Female               | CAP-WHDFLPA1 |



Waterproof Cap > Fiber Optic

Customized – Upon Request

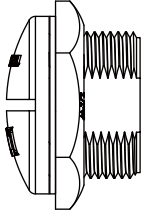


7 Choose rubber lead: Vertical type (1) / Horizontal type (2)

| Size        | Mating Pair                          | Mating Style         | Mating Pair (Gender) | P/N          |
|-------------|--------------------------------------|----------------------|----------------------|--------------|
| Fiber Optic | Receptacle and Overmolded with Cable | 3 point lock bayonet | Female               | CAP-WFBFTMA1 |

Dummy > Circular > Middle Size: 13/16"-28 UNS

Customized – Upon Request



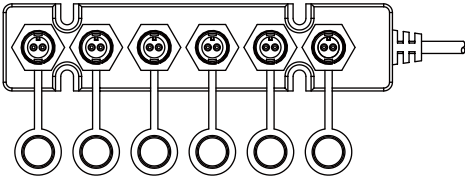
| Size          | Mating Pair         | Mating Style | P/N          |
|---------------|---------------------|--------------|--------------|
| 13/16"-28 UNS | Receptacle (Female) | Screw Thread | CAP-CACFSBA1 |

\* Design and specification are subject to change without notice.

# Accessories - Multi-port

Multi-port > Circular > Mini Size: 7/16"-28 UNS

Customized - Upon Request

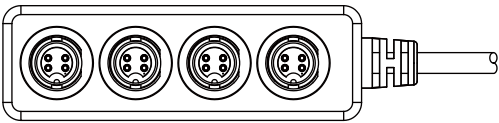


\* Choose the cable length:01-99 m / Cable 22+24+B PVC

| Current Rating | Contacts | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Male Connector / Female Contacts) | More options            |
|----------------|----------|----------------------|-------------------------------------------------|---------------------------------------------------|-------------------------|
|                |          |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Male Connector / Female Contacts) |                         |
|                |          |                      | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Male Connector / Female Contacts) |                         |
|                |          |                      | Connector 4<br>(Male Connector / Male Contacts) | Connector 4<br>(Male Connector / Female Contacts) |                         |
|                |          |                      | Connector 5<br>(Male Connector / Male Contacts) | Connector 5<br>(Male Connector / Female Contacts) |                         |
|                |          |                      | Connector 6<br>(Male Connector / Male Contacts) | Connector 6<br>(Male Connector / Female Contacts) |                         |
| 5A             | 02,03    | Screw Thread         | A-222222-MMMMMM-SA*                             | A-222222-HHHHHH-SA*                               | A-22222-78910111213-SA* |
|                |          | 2 point lock bayonet | A-222222-MMMMMM-LA*<br>A-22222-MMMMMM-LA01      | A-222222-HHHHHH-LA*                               | A-22222-78910111213-LA* |
| 2A             | 04,05,06 | Screw Thread         | A-222222-MMMMMM-SA*                             | A-222222-HHHHHH-SA*                               | A-22222-78910111213-SA* |
|                |          | 2 point lock bayonet | A-222222-MMMMMM-LA*                             | A-222222-HHHHHH-LA*                               | A-22222-78910111213-LA* |

Multi-port > Circular > Standard Size: 5/8"-27 UNS

Customized – Upon Request



- 6 For connector 1
- 7 For connector 2
- 8 For connector 3
- 9 For connector 4

Choose Connector / Contacts Gender:  
M: Male + Male  
F: Female + Female

\* Choose the cable length:01-99 m /  
Cable 22+24+B PVC

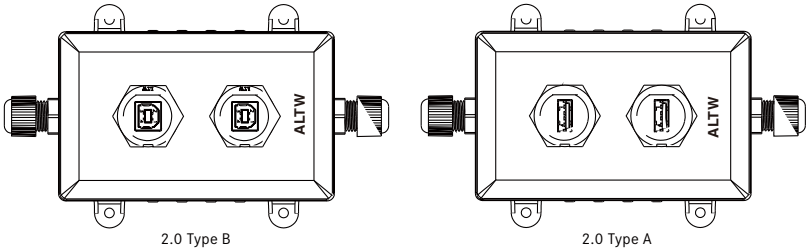
| Current Rating | Contacts<br>2        | Mating Style         | Connector 1<br>(Male Connector / Male Contacts) | Connector 1<br>(Male Connector / Female Contacts) | More options    |
|----------------|----------------------|----------------------|-------------------------------------------------|---------------------------------------------------|-----------------|
|                |                      |                      | Connector 2<br>(Male Connector / Male Contacts) | Connector 2<br>(Male Connector / Female Contacts) |                 |
|                |                      |                      | Connector 3<br>(Male Connector / Male Contacts) | Connector 3<br>(Male Connector / Female Contacts) |                 |
|                |                      |                      | Connector 4<br>(Male Connector / Male Contacts) | Connector 4<br>(Male Connector / Female Contacts) |                 |
| 10A            | 02,03,04             | Screw Thread         | B-2222-MMMMMM-SA*                               | B-2222-HHHHHH-SA*                                 | B-2222-6789-SA* |
|                |                      | 2 point lock bayonet | B-2222-MMMMMM-LA*                               | B-2222-HHHHHH-LA*                                 | B-2222-6789-LA* |
| 5A             | 02,03,04,05,06,07,08 | Screw Thread         | B-2222-MMMMMM-SA*                               | B-2222-HHHHHH-SA*<br>B-04040404-HHHH-SA*          | B-2222-6789-SA* |
|                |                      | 2 point lock bayonet | B-2222-MMMMMM-LA*                               | B-2222-HHHHHH-LA*                                 | B-2222-6789-LA* |
| 2A             | 10,12                | Screw Thread         | B-2222-MMMMMM-SA*                               | B-2222-HHHHHH-SA*                                 | B-2222-6789-SA* |
|                |                      | 2 point lock bayonet | B-2222-MMMMMM-LA*                               | B-2222-HHHHHH-LA*                                 | B-2222-6789-LA* |

\* Design and specification are subject to change without notice.

# Accessories - Box

Box > USB > 2.0 Type A, 2.0 Type B

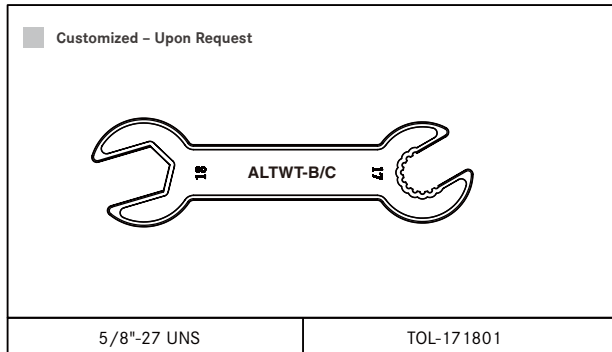
Customized - Upon Request



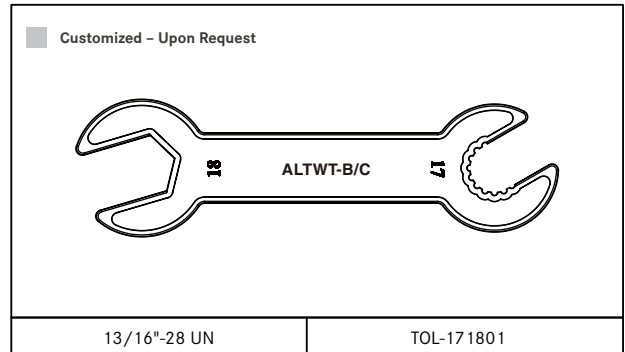
| Type       | Ports | P/N       |
|------------|-------|-----------|
| 2.0 Type A | 1     | BOX-USA11 |
|            | 2     | BOX-USA22 |
|            | 4     | BOX-USA44 |
| 2.0 Type B | 1     | BOX-USB11 |
|            | 2     | BOX-USB22 |
|            | 4     | BOX-USB44 |

## Accessories - Tool

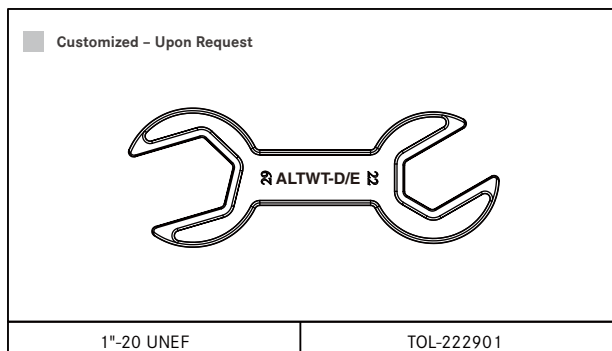
└ **Wrench** > Circular > Standard Size:  
5/8"-27 UNS



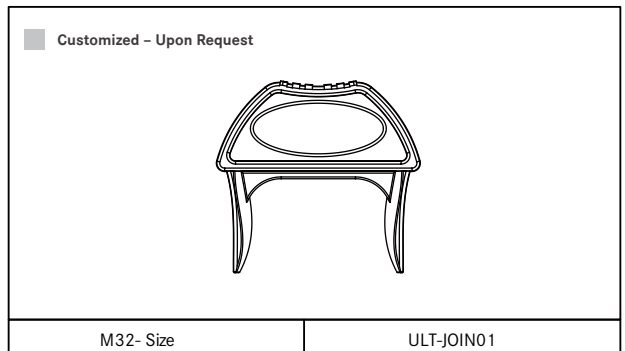
└ **Wrench** > Circular > Middle Size:  
13/16"-28 UNS



└ **Wrench** > Circular > Large Size:  
1"-20 UNEF

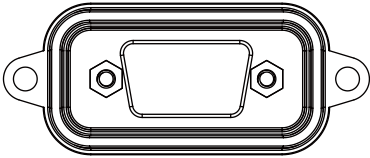
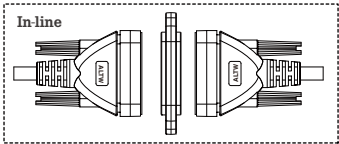


└ **Unlock Tool** > Cable Joiner >  
8~10mm/10~12mm/12~16mm



# Accessories - Joint

Joint > D-SUB > Standard & High Density

| <div><div></div> Customized – Upon Request</div> <div></div> <div><div>In-line</div><div></div><div>* IP67</div></div> |                        |              |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|-------------------|
| Type                                                                                                                                                                                                                                                                                      |                        | Mating Style | P/N               |
| Standard D-SUB                                                                                                                                                                                                                                                                            | High Density D-SUB     |              |                   |
| Standard (9 pins)                                                                                                                                                                                                                                                                         | High Density (15 Pins) | Screw Thread | DJ1-00JNNA-SL7001 |
| Standard (15 pins)                                                                                                                                                                                                                                                                        | High Density (26 Pins) | Screw Thread | DJ2-00JNNA-SL7001 |
| Standard (25 pins)                                                                                                                                                                                                                                                                        | High Density (44 Pins) | Screw Thread | DJ3-00JNNA-SL7001 |

# Accessories - Patch Cable (Double-ended)

## Patch Cable (Double-ended) > RJ

Customized – Upon Request

End 2

Pin Header

End 1

Plug

End 1

Plug

End 2

Pin Header

Gold Plated 6u"

Pitch 2.54mm

Select cable length 10cm/20cm/30cm

| End 1            |        | End 2            |            | P/ N            |
|------------------|--------|------------------|------------|-----------------|
| Type             | Gender | Type             | Gender     |                 |
| RJ 45 Unshielded | Plug   | RJ 45 Unshielded | Plug       | UPG06-CHOP1-C10 |
|                  |        |                  | Pin Header | UPG06-UPG06-C10 |

\* Design and specification are subject to change without notice.

## Glossary

### ⌵ **IP: IP65 • IP66 • IP67 • ALTW IP 68 (According to IEC 60950 standard.)**

The IP Rating- Ingress Protection Rating, sometimes also interpreted as International Protection Rating, classifies and rates the degree of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in mechanical casings and with electrical enclosures.

The standard aims to provide users more detailed information than vague marketing terms such as waterproof.

IP65: No ingress of dust / Protected against low pressure jets of water.

IP66: No ingress of dust / Protected against powerful water jets.

IP67: No ingress of dust / Protected against harmful effects caused in 1M water within 30mins.

IP68: No ingress of dust / Protected against harmful effects caused in 1M water within 24hrs.

IP68 (Micro USB) : No ingress of dust / Protected against harmful effects caused in 1M water within 2hrs.

.....

### ⌵ **Waterproof mated / unmated**

#### **Mated Waterproof:**

Waterproof is only assured when mated & locked tightly to its counterpart.

#### **Unmated Waterproof:**

Standalone waterproof or waterproof is assured even without its counterpart. The water will not get through the inner portion of the exposed connector as it is entirely sealed.

.....

### ⌵ **UV Resistance**

Being resistant to ultra violet (UV) light or sunlight. UV light, or sunlight, will cause non-resistant materials and surfaces to fade or discolor.

.....

### ⌵ **IEC**

Founded in 1906, the IEC (International Electrotechnical Commission) is the world's leading organization for the preparation and publication of International Standards for all electrical, electronic and related technologies. These are known collectively as "electrotechnology".

IEC provides a platform to companies, industries and governments for meeting, discussing and developing the International Standards they require. All IEC International Standards are fully consensus-based and represent the needs of key stakeholders of every nation participating in IEC work. Every member country, no matter how large or small, has one vote and a say in what goes into an IEC International Standard.

.....

### ⌵ **UL 1977**

These requirements cover single and multipole connectors, intended for factory assembly to copper or copper alloy conductors or printed wiring boards, for use in data, signal, control and power applications within and between electrical equipment.



## **ODVA**

Founded in 1995, ODVA is a global association whose members are comprised of the world's leading automation companies. ODVA's mission is to advance open, interoperable information and communication technologies in industrial automation. ODVA recognizes its media independent network protocol, the Common Industrial Protocol or "CIP" – and the network adaptations of CIP – EtherNet/IP, DeviceNet, CompoNet and ControlNet – as its core technology and the primary common interest of its membership. ODVA's vision is to contribute to the sustainability and prosperity of the global community by transforming the model for information and communication technology in the industrial ecosystem.

- ALTW ODVA connectors on P8-11

## **NMEA 2000**

NMEA 2000 is a protocol used to create a network of electronic devices—chiefly marine instruments—on a boat. Various instruments that meet the NMEA 2000 standard are connected to one central cable, known as a backbone. The backbone powers each instrument and relays data among all of the instruments on the network. This allows one display unit to show many different types of information. It also allows the instruments to work together, since they share data. NMEA 2000 is meant to be "plug and play" to allow devices made by different manufacturers to talk and listen to each other.

- ALTW NMEA2000 connectors on P14-1

## **Industrial Automation New Products**

ALTW offers these all new Product features to IA and keeps on working at its best to satisfy the industries continuously growing field of applications:

- \* M8/M12 Improved Cable Assy. with Hex nuts, overall molded connector and UL approved cables (for UL / CSA by Q2 2014)
- \* M8/M12 Ruggedized Distribution Boxes (for UL / CSA by Q4 2013)
- \* M12 High-Speed 8Pin (Up to 10GB Ethernet Application)
- \* M8 / M12 Field Installable in IDC Contacts (Pressed-In Conn.)

## **Amphenol LTW's X-Lok waterproof connector**

"Click" when locking, for effort-saving and speed up. ALTW has X-Lok version for "3 Point Lock".

- ALTW X-Lok connectors on P20-1

## **Amphenol LTW's 3 Point Lock waterproof connector**

To enhance the efficiency and improve the stability of Mating with Lock function, ALTW has the 3 Point Lock design to have better connector mating function.

ALTW provides Cable-to-Cable currently.

### └ Amphenol LTW's RBL waterproof connector

Audible "Click" when locking; push both sides of the "Snap Lock" when unlocking. The creative design is effort-saving and speeds up the traditional connector locking nut function; furthermore, "Dual Snap Lock" is durable and protects from accidental loosening.

- ALTW RBL connectors on P19-1

### └ Amphenol LTW waterproof connector : Mating with lock

"Secured connector mating" product locking mechanisms provides complete connector fastening for assured continuous transmission and reliable waterproof function.

- ALTW Power connector (PWII): P2-13 / P2-14
- ALTW VTC I T-Junction PT: P15-10
- ALTW VTC I SMC: P15-10
- ALTW BMC: P15-13
- Cable Joiner: P21-26

### └ Amphenol LTW's Hybrid waterproof connector

A connector that contains contacts for more than one type of service. Note: Examples of hybrid connectors are those that have contacts for both optical fibers and twisted pairs, electric power and twisted pairs, or shielded and unshielded twisted pairs.

- ALTW Hybrid connectors  
Circular series: P1-1  
(5A+2A / 10A+2A / 10A+5A / 20A+2A / 20A+5A)  
Power series: P2-1  
(20A+2A)

# Appendix

## Standard Cable List

| Product Series | Item No.    | Jacket | Color | UL No.             | Cable Spec.                                   | Cable OD | Note                                                                      |
|----------------|-------------|--------|-------|--------------------|-----------------------------------------------|----------|---------------------------------------------------------------------------|
| Circular       | WCA0487UV01 | PVC    | Black | UL2464             | 26AWG*4C+Drain+AL.Mylar                       | 4.8      | Circular Mini Size / 2A / 4pin                                            |
| Circular       | WCA0486UV01 | PVC    | Black | UL2464             | 26AWG*5C+Drain+AL.Mylar                       | 4.8      | Circular Mini Size / 2A / 5pin                                            |
| Circular       | WCA0540UV01 | PVC    | Black | UL2464             | 26AWG*6C+Drain+AL.Mylar                       | 5.0      | Circular Mini Size / 2A / 6pin                                            |
| Circular       | WCA0072UV01 | PVC    | Black | UL2464             | 24AWG*2C+Drain+AL.Mylar                       | 4.2      | Circular Mini Size / 5A / 2pin<br>Circular Standard Size / 5A / 2pin      |
| Circular       | WCA0549UV01 | PVC    | Black | UL2464             | 24AWG*3C+Drain+AL.Mylar                       | 4.5      | Circular Mini Size / 5A / 3pin<br>Circular Standard Size / 5A / 3pin      |
| Circular       | WCA0219UV01 | PVC    | Black | UL2464             | 24AWG*4C+Drain+AL.Mylar                       | 5.8      | Circular Mini Size / 2A / 4pin<br>Circular Standard Size / 5A / 4pin      |
| Circular       | WCA0217UV01 | PVC    | Black | UL2464             | 24AWG*6C+Drain+AL.Mylar                       | 5.8      | Circular Mini Size / 2A / 6pin<br>Circular Standard Size / 5A / 6pin      |
| Circular       | WCA0543UV01 | PVC    | Black | UL2464             | 26AWG*10C+Drain+AL.Mylar                      | 6.0      | Circular Standard Size / 2A / 10pin                                       |
| Circular       | WCA0544UV01 | PVC    | Black | UL2464             | 26AWG*12C+Drain+AL.Mylar                      | 6.0      | Circular Standard Size / 2A / 12pin                                       |
| Circular       | WCA00010897 | PVC    | Black | UL1277,UL1581&UL83 | 18AWG*3C                                      | 8.5      | Circular Standard Size / 5A / 3pin                                        |
| Circular       | WCA00010898 | PVC    | Black | UL1277,UL1581&UL83 | 18AWG*4C                                      | 9.2      | Circular Standard Size / 5A / 4pin                                        |
| Circular       | WCA0551UV01 | PVC    | Black | UL2464             | 24AWG*5C+Drain+AL.Mylar                       | 5.0      | Circular Standard Size / 5A / 5pin                                        |
| Circular       | WCA0124UV01 | PVC    | Black | UL2464             | 20AWG*2C+Drain+AL.Mylar                       | 5.8      | Circular Standard Size / 10A / 2pin                                       |
| Circular       | WCA0489UV01 | PVC    | Black | UL2464             | 20AWG*3C+AL.Mylar                             | 5.0      | Circular Standard Size / 10A / 3pin                                       |
| Circular       | WCA0584UV01 | PVC    | Black | UL2464             | 26AWG*6C+24AWG*2C+Drain+AL.Mylar              | 5.5      | Circular Standard Size / 5A+2A / 8pin                                     |
| Circular       | WCA0585UV01 | PVC    | Black | UL2464             | 24AWG*4C+20AWG*2C+Drain+AL.Mylar              | 6.0      | Circular Standard Size / 10A+5A / 6pin                                    |
| Circular       | WCA0087UV01 | PVC    | Black | UL2464             | 24AWG*7C+Drain+AL/Mylar                       | 5.8      | Circular Standard Size / 5A / 7pin<br>Circular Middle Size / 5A / 7pin    |
| Circular       | WCA0003UV01 | PVC    | Black | UL2464             | 24AWG*8C+Drain+AL/Mylar                       | 5.5      | Circular Standard Size / 5A / 8pin<br>Circular Middle Size / 5A / 8pin    |
| Circular       | WCA0575UV01 | PVC    | Black | UL2464             | 20AWG*4C+Drain+AL.Mylar                       | 5.5      | Circular Standard Size / 10A / 4pin<br>Circular Middle Size / 10A / 4pin  |
| Circular       | WCA0528UV01 | PVC    | Black | UL2464             | 24AWG*9C+Drain+AL.Mylar                       | 6.0      | Circular Middle Size / 5A / 9pin                                          |
| Circular       | WCA0556UV01 | PVC    | Black | UL2464             | 24AWG*10C+Drain+AL.Mylar                      | 6.5      | Circular Middle Size / 5A / 10pin                                         |
| Circular       | WCA0557UV01 | PVC    | Black | UL2464             | 24AWG*12C+Drain+AL.Mylar                      | 7.0      | Circular Middle Size / 5A / 12pin<br>Circular Middle Size / 5A+2A / 12pin |
| Circular       | WCA0558UV01 | PVC    | Black | UL2464             | 24AWG*14C+Drain+AL.Mylar                      | 7.0      | Circular Middle Size / 5A / 14pin<br>Circular Middle Size / 5A+2A / 14pin |
| Circular       | WCA0576UV01 | PVC    | Black | UL2464             | 20AWG*5C+Drain+AL.Mylar                       | 6.0      | Circular Middle Size / 10A / 5pin                                         |
| Circular       | WCA0577UV01 | PVC    | Black | UL2464             | 20AWG*6C+Drain+AL.Mylar                       | 6.5      | Circular Middle Size / 10A / 6pin                                         |
| Circular       | WCA00010710 | PVC    | Black | UL2464             | (2P*24AWG+Drain+AL)+3C*16AWG+Filler+Pa<br>per | 12.0     | Circular Middle Size / 10A+2A / 8Pin                                      |
| Circular       | WCA0042UV01 | PVC    | Black | UL2464             | 24AWG*6C+20AWG*2C+Drain+AL.Mylar              | 6.0      | Circular Middle Size / 10A+5A / 8pin<br>Circular Others / 10A+5A / 8pin   |
| Circular       | WCA0560UV01 | PVC    | Black | UL2464             | 24AWG*18C+Drain+AL.Mylar                      | 8.0      | Circular Middle Size / 2A / 18pin<br>Circular Large Size / 5A / 18pin     |
| Circular       | WCA0264UV01 | PVC    | Black | UL2464             | 16AWG*2C+Talcum                               | 5.8      | Circular Middle Size / 20A / 2pin<br>Circular Large Size / 20A / 2pin     |
| Circular       | WCA0579UV01 | PVC    | Black | UL2464             | 16AWG*3C+Drain+AL.Mylar                       | 7.5      | Circular Middle Size / 20A / 3pin<br>Circular Large Size / 20A / 3pin     |
| Circular       | WCA00010045 | PVC    | Black | UL2464             | 26AWG*22C+Drain+AL.Mylar                      | 7.5      | Circular Large Size / 2A / 20~22pin                                       |
| Circular       | WCA0285UV01 | PVC    | Black | UL2464             | 16AWG*4C+AL.Mylar                             | 7.5      | Circular Large Size / 20A / 4pin                                          |
| Circular       | WCA0263UV01 | PVC    | Black | UL2464             | 16AWG*5C+Talcum                               | 7.8      | Circular Large Size / 20A / 5pin                                          |
| Circular       | WCA0582UV01 | PVC    | Black | UL2464             | 16AWG*6C+Filler+Drain+AL.Mylar                | 9.5      | Circular Large Size / 20A / 6pin                                          |
| Circular       | WCA0583UV01 | PVC    | Black | UL2464             | 16AWG*7C+Drain+AL.Mylar                       | 9.5      | Circular Large Size / 20A / 7pin                                          |
| Circular       | WCA00010876 | PVC    | Black | UL2586             | (24AWG*1P+A)*2C+16AWG*3C+EA                   | 10.0     | Circular Large Size / 20A+2A / 8pin                                       |
| Circular       | WCA00010635 | PVC    | Black | UL2464             | (24AWG*4P+Drain+AL)+16AWG*3C+Filler+Pa<br>per | 11.0     | Circular Large Size / 20A+5A / 12pin                                      |
| Circular       | WCA0449UV01 | PVC    | Black | UL2464             | 26AWG*31C+Drain+AL.Mylar                      | 9.0      | Circular Macro Size / 5A / 31pin                                          |
| Circular       | WCA0577UV01 | PVC    | Black | UL2464             | 20AWG*6C+Drain+AL.Mylar                       | 6.5      | Circular RBL / 5A / 6pin                                                  |
| Circular       | WCA0485XX01 | PVC    | Black | UL2464             | 14AWG*3C+Talcum                               | 7.0      | Circular X-Lock / 20A / 3pin                                              |

\* Design and specification are subject to change without notice.

## Appendix

### Standard Cable List

| Product Series | Item No.    | Jacket | Color | UL No.             | Cable Spec.                                            | Cable OD | Note                            |
|----------------|-------------|--------|-------|--------------------|--------------------------------------------------------|----------|---------------------------------|
| Power          | WCA0576UV01 | PVC    | Black | UL2464             | 20AWG*5C+Drain+AL.Mylar                                | 6.0      | Power / 8A / 5pin               |
| Power          | WCA0577UV01 | PVC    | Black | UL2464             | 20AWG*6C+Drain+AL.Mylar                                | 6.5      | Power / 8A / 6pin               |
| Power          | WCA00010049 | PVC    | Black | UL2464             | 20AWG*7C+Drain+AL.Mylar                                | 6.5      | Power / 8A / 7pin               |
| Power          | WCA0264UV01 | PVC    | Black | UL2464             | 16AWG*2C+Talcum                                        | 5.8      | Power / 12A / 2pin              |
| Power          | WCA0579UV01 | PVC    | Black | UL2464             | 16AWG*3C+Drain+AL.Mylar                                | 7.5      | Power / 12A / 3pin              |
| Power          | WCA0285UV01 | PVC    | Black | UL2464             | 16AWG*4C+AL.Mylar                                      | 7.5      | Power / 12A / 4pin              |
| Power          | WCA0485XX01 | PVC    | Black | UL2464             | 14AWG*3C+Talcum                                        | 7.0      | Power / 20A / 3pin              |
| Power          | WCA00010846 | PVC    | Black | UL1277,UL1581&UL83 | 14AWG*3C                                               | 9.7      | Power / 20A / 3pin              |
| Power          | WCA0579UV01 | PVC    | Black | UL2464             | 16AWG*3C+Drain+AL.Mylar                                | 7.5      | Power / 20A+2A / 4pin           |
| Power          | WCA00010899 | PVC    | Black | UL1277,UL1581,UL83 | 14AWG*3C+16AWG*1C                                      | 10.3     | Power / 20A+2A / 4pin           |
| Power          | WCA00010239 | PVC    | Black | -                  | SJT 10AWG*3C+Talc                                      | 15.6     | Power / 25A / 3pin              |
| Sensor         | WCA0570UV01 | PVC    | Black | UL2464             | 22AWG*3C+Talcum                                        | 5.0      | Sensor M8 / 5A / 3pin           |
| Sensor         | WCA00010063 | PU     | Black | NONUL              | 22AWG*3C+Talcum                                        | 4.5      | Sensor M8 / 5A / 3pin           |
| Sensor         | WCA0571UV01 | PVC    | Black | UL2464             | 22AWG*4C+Talcum                                        | 5.0      | Sensor M8 / 5A / 4pin           |
| Sensor         | WCA00010062 | PU     | Black | NONUL              | 22AWG*4C+Insulation                                    | 4.8      | Sensor M8 / 5A / 4pin           |
| Sensor         | WCA0027UV01 | PVC    | Black | UL2464             | 24AWG*2C+Talcum                                        | 4.2      | Sensor M10.5 / 2A / 2pin        |
| Sensor         | WCA0006UV01 | PVC    | Black | UL2464             | 24AWGx3C+Talcum                                        | 4.5      | Sensor M10.5 / 2A / 3pin        |
| Sensor         | WCA0036UV01 | PVC    | Black | UL2464             | 24AWG*4C+Talcum                                        | 5.0      | Sensor M10.5 / 2A / 4pin        |
| Sensor         | WCA0229UV01 | PVC    | Black | UL2464             | 24AWG*5C+Talcum                                        | 5.0      | Sensor M10.5 / 2A / 5pin        |
| Sensor         | WCA0570UV01 | PVC    | Black | UL2464             | 22AWG*3C+Talcum                                        | 5.0      | Sensor M12 / 5A / 3pin          |
| Sensor         | WCA00010063 | PU     | Black | NONUL              | 22AWG*3C+Talcum                                        | 4.5      | Sensor M12 / 5A / 3pin          |
| Sensor         | WCA0571UV01 | PVC    | Black | UL2464             | 22AWG*4C+Talcum                                        | 5.0      | Sensor M12 / 5A / 4pin          |
| Sensor         | WCA00010062 | PU     | Black | NONUL              | 22AWG*4C+Insulation                                    | 4.8      | Sensor M12 / 5A / 4pin          |
| Sensor         | WCA0521UV01 | PVC    | Black | UL2464             | 22AWG*5C+Talcum                                        | 5.5      | Sensor M12 / 5A / 5pin          |
| Sensor         | WCA00010061 | PU     | Black | NONUL              | 22AWG*5C+Filler+Talcum+Paper                           | 5.0      | Sensor M12 / 5A / 5pin          |
| Sensor         | WCA0203UV01 | PVC    | Black | UL2464             | 24AWG*8C+Talcum                                        | 5.5      | Sensor M12 / 2A / 8pin          |
| Sensor         | WCA00010060 | PU     | Black | NONUL              | 24AWG*8C+Paper+Filler                                  | 6.0      | Sensor M12 / 2A / 8pin          |
| Sensor         | WCA00010209 | PVC    | Black | UL2464             | 22AWG*3C+Drain+AL.Mylar                                | 4.5      | Sensor M12 Shielded / 5A / 3pin |
| Sensor         | WCA00010139 | PU     | Black | NONUL              | 22AWG*3C+Drain+AL.Mylar                                | 4.5      | Sensor M12 Shielded / 5A / 3pin |
| Sensor         | WCA0568UV01 | PVC    | Black | UL2464             | 22AWG*4C+Drain+AL.Mylar                                | 5.5      | Sensor M12 Shielded / 5A / 4pin |
| Sensor         | WCA00010140 | PU     | Black | NONUL              | 22AWG*4C+Drain+AL.Mylar                                | 4.5      | Sensor M12 Shielded / 5A / 4pin |
| Sensor         | WCA0569UV01 | PVC    | Black | UL2464             | 22AWG*5C+Drain+AL.Mylar                                | 5.5      | Sensor M12 Shielded / 5A / 5pin |
| Sensor         | WCA00010141 | PU     | Black | NONUL              | 22AWG*5C+AL.Mylar+Drain                                | 5.2      | Sensor M12 Shielded / 5A / 5pin |
| Sensor         | WCA0003UV01 | PVC    | Black | UL2464             | 24AWG*8C+Drain+AL/Mylar                                | 5.5      | Sensor M12 Shielded / 2A / 8pin |
| Sensor         | WCA00010142 | PU     | Black | NONUL              | 24AWG*8C+Drain+AL.Mylar                                | 5.5      | Sensor M12 Shielded / 2A / 8pin |
| Sensor         | WCA0352XX02 | PU     | Black | NONUL              | 22AWG*5C+Talcum                                        | 5.0      | Sensor M12 Y Cable / 5A / 5pin  |
| Sensor         | WCA0251XX02 | PU     | Black | NONUL              | 24AWG*8C+Paper                                         | 5.2      | Sensor M12 Y Cable / 2A / 8pin  |
| USB            | WCA0365UV01 | PVC    | Black | -                  | 28AWG*1P+24AWG*2C+AL.Mylar+Drain+Braid (USB 2.0)       | 5.0      | USB / 2.0                       |
| IEEE 1394      | WCA00010037 | PVC    | Black | -                  | (28AWG*1P+AL+B)*2+22AWG*2C+Tran.Mylar+AL+B             | 6.5      | IEEE 1394                       |
| D-SUB          | WCA0528UV01 | PVC    | Black | UL2464             | 24AWG*9C+Drain+AL.Mylar                                | 6.0      | D-SUB Standard / 09pin          |
| D-SUB          | WCA0465UV01 | PVC    | Black | UL2464             | 24AWG*15C+Drain+AL.Mylar                               | 7.0      | D-SUB Standard / 15pin          |
| D-SUB          | WCA0284UV01 | PVC    | Black | UL2464             | 24AWG*25C+Drain+AL.Mylar                               | 9.0      | D-SUB Standard / 25pin          |
| D-SUB          | WCA00010114 | PVC    | Black | UL2464             | 24AWG*37C+Drain+AL/Mylar                               | 8.5      | D-SUB Standard / 37pin          |
| D-SUB          | WCA00010080 | PVC    | Black | UL2464             | (24AWG*25C+Mylar)+24AWG*25C+Drain+AL.Mylar             | 12.0     | D-SUB Standard / 50pin          |
| D-SUB          | WCA0545UV01 | PVC    | Black | UL2464             | 26AWG*15C+Drain+AL.Mylar                               | 6.5      | D-SUB High Density / 15pin      |
| D-SUB          | WCA0546UV01 | PVC    | Black | UL2464             | 26AWG*26C+Drain+AL.Mylar                               | 8.0      | D-SUB High Density / 26pin      |
| D-SUB          | WCA0547UV01 | PVC    | Black | UL2464             | 26AWG*44C+Drain+AL.Mylar                               | 10.5     | D-SUB High Density / 44pin      |
| D-SUB          | WCA00010115 | PVC    | Black | UL2464             | (26AWG*31C+Mylar)+26AWG*31C+Drain+AL/Mylar             | 13.0     | D-SUB High Density / 62pin      |
| D-SUB          | WCA00010081 | PVC    | Black | UL2464             | ((28AWG*28C+Mylar)+28AWG*22C+Mylar)+28AWG*28C+Drain+AL | 13.0     | D-SUB High Density / 78pin      |

| Product Series | Item No.    | Jacket | Color | UL No.             | Cable Spec.                                                              | Cable OD | Note                      |
|----------------|-------------|--------|-------|--------------------|--------------------------------------------------------------------------|----------|---------------------------|
| DVI            | WCA00010095 | PVC    | Black | UL20276            | (28AWG*1P+Drain+AL+Mylar)*4C+(1P+3C)*28AWG+AL+Braid                      | 7.3      | DVI / 19pin               |
| DVI            | WCA00010096 | PVC    | Black | UL20276            | [3COAX+(1P*28AWG+Drain+AL.Mylar+Mylar)*4+1P*28#+6C*28AWG]+AL.Mylar+Braid | 8.5      | DVI / 23pin               |
| DVI            | WCA00010097 | PVC    | Black | UL20276            | (28AWG*1P+Drain+AL+Mylar)*7C+28AWG*1P+28AWG*3C+AL+Braid                  | 8.5      | DVI / 25pin               |
| DVI            | WCA00010098 | PVC    | Black | UL20276            | [3COAX+(28AWG*1P+Drain+AL+Mylar)*7+28AWG*1P+28AWG*6C]+AL+Braid           | 10.0     | DVI / 29pin               |
| RJ             | WCA0663UV01 | PVC    | Black | -                  | CAT.5E UTP 24AWG*4P                                                      | 6.0      | RJ / Cat.5E               |
| RJ             | WCA0664UV01 | PVC    | Black | -                  | CAT.5E FTP 24AWG*4P+Mylar+D+AL/Mylar                                     | 6.5      | RJ / Cat.5E               |
| RJ             | WCA00010356 | PVC    | Black | -                  | CAT.5E FTP 24AWG*5P+Mylar+Drain+AL.Mylar                                 | 6.5      | RJ / Cat.5E               |
| HDMI           | WCA00010264 | PVC    | Black | UL20276            | (26AWG*1P+Drain+AL+Mylar)*4C+26AWG*1P+26AWG*5C+AL+Braid                  | 8.5      | HDMI / 19pin              |
| NMEA           | WCA00010257 | PVC    | Black | -                  | [(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+AL.Mylar+Braid                       | 6.0      | NMEA / 4A / 5pin          |
| NMEA           | WCA00010258 | PVC    | Black | -                  | [(22AWG+1P+AL)+(18AWG+1P+AL)]+Drain+AL.Mylar+Braid                       | 7.0      | NMEA / 4A / 5pin          |
| NMEA           | WCA00010437 | PVC    | Gray  | -                  | [(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+Braid+Mylar                          | 7.1      | NMEA / 4A / 5pin          |
| NMEA           | WCA00010369 | PVC    | Black | -                  | STOOW 16AWG*4C                                                           | 10.6     | NMEA / 8A / 4pin          |
| NMEA           | WCA00010259 | PVC    | Black | UL20276            | [(18AWG*1P+AL)+(16AWG*1P+AL)]+Drain+AL+Braid                             | 10.0     | NMEA / 8A / 5pin          |
| NMEA           | WCA00010436 | PVC    | Gray  | -                  | [(18AWG+1P+AL)+(15AWG+1P+AL)]+Drain+Braid                                | 12.2     | NMEA / 8A / 5pin          |
| Coaxial        | WCA0033XX01 | PVC    | Black | -                  | 20AWG,RG-58/U1                                                           | 5.0      | Coaxial / 50Ω             |
| Coaxial        | WCA0009XX04 | PVC    | Black | -                  | RG-59U 1C+Braid                                                          | 6.15     | Coaxial / 75Ω             |
| Coaxial        | WCA0445XX01 | PVC    | Black | UL1185             | 26AWG*1C+Spiral                                                          | 3.0      | Coaxial / RCA             |
| DC-JACK        | WCA0072UV01 | PVC    | Black | UL2464             | 24AWG*2C+Drain+AL.Mylar                                                  | 4.2      | DC-JACK / 2pin,14pin      |
| DC-JACK        | WCA0549UV01 | PVC    | Black | UL2464             | 24AWG*3C+Drain+AL.Mylar                                                  | 4.5      | DC-JACK                   |
| KSZ Circular   | WCA00010022 | PVC    | Black | UL2464             | 18AWGx2C+AL.Mylar                                                        | 5.5      | KSZ Circular / 10A / 2pin |
| KSZ Circular   | WCA0242XX01 | PVC    | Black | UL2464             | 18AWG*3C+AL.Mylar                                                        | 6.0      | KSZ Circular / 10A / 3pin |
| KSZ Circular   | WCA0416XX01 | PVC    | Black | UL2464             | 18AWG*4C+Drain+AL.Mylar                                                  | 6.5      | KSZ Circular / 10A / 4pin |
| Low Profile    | WCA0542UV01 | PVC    | Black | UL2464             | 26AWG*8C+Drain+AL.Mylar                                                  | 5.5      | Low Profile / 1A / 8pin   |
| Low Profile    | WCA0543UV01 | PVC    | Black | UL2464             | 26AWG*10C+Drain+AL.Mylar                                                 | 6.0      | Low Profile / 1A / 10pin  |
| Mini Din       | WCA0487UV01 | PVC    | Black | UL2464             | 26AWG*4C+Drain+AL.Mylar                                                  | 4.8      | Mini Din / 4pin           |
| Mini Din       | WCA0486UV01 | PVC    | Black | UL2464             | 26AWG*5C+Drain+AL.Mylar                                                  | 4.8      | Mini Din / 5pin           |
| Mini Din       | WCA0540UV01 | PVC    | Black | UL2464             | 26AWG*6C+Drain+AL.Mylar                                                  | 5.0      | Mini Din / 6pin           |
| Mini Din       | WCA0541UV01 | PVC    | Black | UL2464             | 26AWG*7C+Drain+AL.Mylar                                                  | 5.0      | Mini Din / 7pin           |
| Mini Din       | WCA0542UV01 | PVC    | Black | UL2464             | 26AWG*8C+Drain+AL.Mylar                                                  | 5.5      | Mini Din / 8pin           |
| Solar          | WCA00010897 | PVC    | Black | UL1277,UL1581&UL83 | 18AWG*3C                                                                 | 8.5      | Solar / 3pin              |
| Solar          | WCA00010898 | PVC    | Black | UL1277,UL1581&UL83 | 18AWG*4C                                                                 | 9.2      | Solar / 4pin              |
| Solar          | WCA00010894 | PVC    | Black | UL1277,UL1581&UL83 | 12AWG*3C                                                                 | 11.0     | Solar / 17A / 3pin        |
| Solar          | WCA00010895 | PVC    | Black | UL1277,UL1581&UL83 | 12AWG*4C                                                                 | 12.0     | Solar / 17A / 4pin        |
| Solar          | WCA00010373 | TPE-U  | Black | -                  | 12AWG*1C                                                                 | 6.5      | Solar / 1Pin              |
| Solar          | WCA00010593 | XLPO   | Black | -                  | 12AWG*1C                                                                 | 6.1      | Solar / 1Pin              |
| Solar          | WCA00010750 | XLPO   | Black | -                  | 12AWG*1C                                                                 | 6.3      | Solar / 1Pin              |
| Solar          | WCA00010430 | XLPO   | Black | -                  | 12AWG*1C                                                                 | 6.8      | Solar / 1Pin              |

\* Design and specification are subject to change without notice.

## Maximum Wire Copper OD Size

| Product Series             | Categories          | Sub-Categories                | Solder Pin: Maximum<br>Copper OD within<br>allowed current rating<br>(Unit: mm) | Screw Pin: Maximum<br>Copper OD within<br>allowed current rating<br>(Unit: mm) |
|----------------------------|---------------------|-------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Circular Connectors        | Mini (A) - Size     | AD                            | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Mini (A) - Size     | AU                            | 0.80                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BB                            | 1.30                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BD                            | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BB                            | 1.30                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BBD                           | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BD                            | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BDU                           | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Standard (B) - Size | BU                            | 0.80                                                                            | -                                                                              |
| Circular Connectors        | Middle (C) - Size   | CBU                           | 1.3/0.8                                                                         | -                                                                              |
| Circular Connectors        | Middle (C) - Size   | CB                            | 1.30                                                                            | -                                                                              |
| Circular Connectors        | Middle (C) - Size   | CC                            | 1.70                                                                            | 2.00                                                                           |
| Circular Connectors        | Middle (C) - Size   | CD                            | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Middle (C) - Size   | CU                            | 0.80                                                                            | -                                                                              |
| Circular Connectors        | Middle (C) - Size   | CDU                           | 1.0/0.8                                                                         | -                                                                              |
| Circular Connectors        | Large (D) - Size    | DCD                           | 1.7/1.0                                                                         | -                                                                              |
| Circular Connectors        | Large (D) - Size    | DCU                           | 1.7/0.8                                                                         | -                                                                              |
| Circular Connectors        | Large (D) - Size    | DC                            | 1.70                                                                            | 2.00                                                                           |
| Circular Connectors        | Large (D) - Size    | DD                            | 1.00                                                                            | -                                                                              |
| Circular Connectors        | Large (E) - Size    | ED                            | 1.00                                                                            | -                                                                              |
| M Series Sensor Connectors | M8                  | 8P                            | 0.80                                                                            | -                                                                              |
| M Series Sensor Connectors | M12                 | 12,12B,12D,12B,SBP,SDP        | 1.00                                                                            | 1.10                                                                           |
| M Series Sensor Connectors | M20                 | HB20,HC20,HD20,LB20,LC20,LD20 | 1.70                                                                            | 2.00                                                                           |
| M Series Sensor Connectors | M23                 | LJ23                          | -                                                                               | -                                                                              |
| Power Connectors           | 20A+2A              | PWCU                          | 1.7/0.8                                                                         | -                                                                              |
| Power Connectors           | 30A                 | PWL                           | 3.60                                                                            | -                                                                              |
| Power Connectors           | 30A                 | PWJ                           | -                                                                               | 2.60                                                                           |
| Power Connectors           | 25A                 | PWH                           | 2.60                                                                            | -                                                                              |
| Power Connectors           | 20A                 | PWC                           | 1.70                                                                            | -                                                                              |
| Power Connectors           | 8A                  | PWE                           | 1.20                                                                            | 1.10                                                                           |
| Power Connectors           | 12A                 | PWF                           | 1.60                                                                            | 1.60                                                                           |
| Power Connectors           | 16A                 | PWG                           | 2.00                                                                            | 2.00                                                                           |
| NMEA 2000 Connectors       | Micro               | 12,12P                        | 1.00                                                                            | -                                                                              |
| D-SUB Connectors           | Standard            | SDB-09                        | 1.00                                                                            | -                                                                              |
| D-SUB Connectors           | Standard            | SDB-15,SDB-25                 | 1.00                                                                            | -                                                                              |
| D-SUB Connectors           | Standard            | SDB-15                        | 1.00                                                                            | -                                                                              |
| D-SUB Connectors           | High Density        | HDB-15                        | 1.00                                                                            | -                                                                              |
| D-SUB Connectors           | High Density        | HDB-26,HDB-44                 | 1.00                                                                            | -                                                                              |
| D-SUB Connectors           | High Density        | HDB-26                        | 1.00                                                                            | -                                                                              |

## Cable Max. OD for Filed Installable

| Product Series             | Categories          | Sub-Categories                | Cable OD          |
|----------------------------|---------------------|-------------------------------|-------------------|
| Circular Connectors        | Mini (A) - Size     | AD,AU                         | 4.5~6.5           |
| Circular Connectors        | Standard (B) - Size | BB,BD                         | 3.5~6.5           |
| Circular Connectors        | Standard (B) - Size | BB,BBD,BD,BDU,BU              | 4.5~6.5           |
| Circular Connectors        | Middle (C) - Size   | CBU                           | 7.6~9.6           |
| Circular Connectors        | Middle (C) - Size   | CB,CC,CD,CU,CDU               | 4.0~9.6           |
| Circular Connectors        | Large (D) - Size    | DCD                           | 10.0~12.4         |
| Circular Connectors        | Large (D) - Size    | DCU                           | 9.5~10.8          |
| Circular Connectors        | Large (D) - Size    | DC,DD                         | 9.5~10.8          |
| Circular Connectors        | Large (E) - Size    | None                          | None              |
| Circular Connectors        | Other - Size        | PLD                           | 4.5~6.5           |
| M Series Sensor Connectors | M8                  | 8P                            | 4.5~6.5           |
| M Series Sensor Connectors | M12                 | 12, 12B, 12D, 12B,SBP,SDP     | 4.5~6.5           |
| M Series Sensor Connectors | M20                 | HB20,HC20,HD20,LB20,LC20,LD20 | 5.5~12.5          |
| M Series Sensor Connectors | M23                 | LJ23                          | 8.5~17.5          |
| Power Connectors           | 20A+2A              | PWCU                          | 4.0~9.6 , 10~19   |
| Power Connectors           | 30A                 | PWL                           | 10~19             |
| Power Connectors           | 30A                 | PWJ                           | 9.0~12.0 , 13~16  |
| Power Connectors           | 25A                 | PWH                           | 9.0~12.0 , 13~16  |
| Power Connectors           | 20A                 | PWC                           | 4.0~9.6           |
| Power Connectors           | 8A                  | PWE                           | 5.5~10.8          |
| Power Connectors           | 12A                 | PWF                           | 5.5~10.8          |
| Power Connectors           | 16A                 | PWG                           | 6.0~12.5          |
| USB Connectors             | Mini USB 2.0 B Type | NUB                           | 3.5~5.5           |
| USB Connectors             | USB 2.0 A Type      | UA                            | 5.0~10.8          |
| USB Connectors             | USB 2.0 B Type      | UB                            | 5.0~10.8          |
| NMEA 2000 Connectors       | Micro               | 12, 12P                       | 4.5~6.5           |
| NMEA 2000 Connectors       | Mini                | MN                            | 8.0~11.0          |
| NMEA 2000 Connectors       | Micro               | UMC                           | 4.5~7.5           |
| NMEA 2000 Connectors       | Mini                | UMN                           | 8~12.2            |
| D-SUB Connectors           | Standard            | SDB-09                        | 3.5~7.0           |
| D-SUB Connectors           | Standard            | SDB-15,SDB-25                 | 6.0~10.0          |
| D-SUB Connectors           | Standard            | SDB-15                        | 6.0~8.0           |
| D-SUB Connectors           | High Density        | HDB-15                        | 3.5~7.0           |
| D-SUB Connectors           | High Density        | HDB-26,HDB-44                 | 6.0~10.0          |
| D-SUB Connectors           | High Density        | HDB-26                        | 6.0~8.0           |
| IEEE 1394 Connectors       | IEEE 1394B          | 13-                           | 6.0~10.0          |
| Fiber Optic Connectors     | LC Type             | FB-                           | 2.5~2.8 , 4.5~6.8 |
| Fiber Optic Connectors     | SC Type             | FB-                           | 2.0~2.4           |
| Cable Joiner               | 6~10mm              | CX                            | 6~10              |
| Cable Joiner               | 8~10mm              | CX                            | 8~10              |
| Cable Joiner               | 10~12mm             | CX                            | 10~12             |
| Cable Joiner               | 12~16mm             | CX                            | 12~16             |
| RJ Connector               | -                   | RCP,RDP,ROP                   | 4.5~6.5           |

\* Design and specification are subject to change without notice.

## Quick Search (Circular Connector)

### └ In-line

| Size                             | Mating Style  | Connector<br>(Housing) Gender /<br>Contact Gender | Overmolded with Cable / Field Installable | To | Mating Pair                               | Page |
|----------------------------------|---------------|---------------------------------------------------|-------------------------------------------|----|-------------------------------------------|------|
| Mini Size (A)<br>7/16"-28 UNS    | 2 Points Lock | MM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-14 |
|                                  |               | FF                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-14 |
| Standard Size (B)<br>5/8"-27 UNS | 2 Points Lock | MM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-16 |
|                                  |               |                                                   | Field Installable                         | To | Overmolded with Cable & Field Installable | 1-16 |
|                                  |               | FF                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-17 |
|                                  |               |                                                   | Field Installable                         | To | Overmolded with Cable & Field Installable | 1-17 |
|                                  |               | FM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-18 |
| Middle Size (C)<br>13/16"-28 UNS | 2 Points Lock | MM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-22 |
|                                  |               |                                                   | Field Installable                         | To | Overmolded with Cable & Field Installable | 1-22 |
|                                  |               | FF                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-22 |
|                                  |               |                                                   | Field Installable                         | To | Overmolded with Cable & Field Installable | 1-23 |
|                                  |               | MF                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-23 |
|                                  |               | FM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-23 |
| Large Size (D)<br>1"-20UNEF      | 2 Points Lock | MM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-29 |
|                                  |               | FF                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-29 |
|                                  |               | MF                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-29 |
|                                  |               | FM                                                | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-30 |
|                                  |               | MD*                                               | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-30 |
|                                  |               |                                                   | Field Installable                         | To | Overmolded with Cable & Field Installable | 1-30 |
|                                  |               | ME*                                               | Overmolded with Cable                     | To | Overmolded with Cable & Field Installable | 1-31 |
|                                  |               |                                                   | Field Installable                         | To | Overmolded with Cable & Field Installable | 1-31 |

\* (E) Male (Power) + Female (Signal) | (D) Female (Power) + Male (Signal)

### └ Receptacle and Maing Pair

| Size                             | Mating Style                    | Connector<br>(Housing) Gender /<br>Contact Gender | Receptacle / Receptacle with<br>Overmolded Cable | To | Mating Pair                               | Page |
|----------------------------------|---------------------------------|---------------------------------------------------|--------------------------------------------------|----|-------------------------------------------|------|
| Mini Size (A)<br>7/16"-28 UNS    | Screw Thread /<br>2 Points Lock | MM                                                | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-15 |
|                                  |                                 |                                                   | Receptacle with Overmolded Cable                 | To | Overmolded with Cable & Field Installable | 1-15 |
|                                  |                                 |                                                   | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-19 |
| Standard Size (B)<br>5/8"-27 UNS | Screw Thread /<br>2 Points Lock | MM                                                | Receptacle with Overmolded Cable                 | To | Overmolded with Cable & Field Installable | 1-20 |
|                                  |                                 | MF                                                | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-21 |
|                                  |                                 |                                                   | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-24 |
| Middle Size (C)<br>13/16"-28 UNS | Screw Thread /<br>2 Points Lock | MM                                                | Receptacle with Overmolded Cable                 | To | Overmolded with Cable & Field Installable | 1-25 |
|                                  |                                 |                                                   | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-26 |
|                                  |                                 |                                                   | Receptacle with Overmolded Cable                 | To | Overmolded with Cable & Field Installable | 1-27 |
|                                  |                                 |                                                   | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-28 |
|                                  | 3 Points Lock                   | MD*                                               | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-28 |
|                                  |                                 | ME                                                | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-28 |
| Large Size (D)<br>1"-20UNEF      | Screw Thread /<br>2 Points Lock | MM                                                | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-32 |
|                                  |                                 | MF                                                | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-33 |
|                                  | 2 Points Lock                   | MD*                                               | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-34 |
|                                  |                                 | ME*                                               | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-34 |
| Micro Size (E)<br>1 3/16"-20 UNS | 2 Points Lock                   | MF                                                | Receptacle                                       | To | Overmolded with Cable & Field Installable | 1-34 |

\* (E) Male (Power) + Female (Signal) | (D) Female (Power) + Male (Signal)





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