

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com









Sensor/actuator cables are used for wiring sensors and actuators and for transmitting data or power in various applications. The moulded cable offers connected and tested connection of the plug-in connector to the cable ex-works. The cables may be exposed to a wide range of conditions, such as humidity, dust, heat, cold, shock or vibration.

Our developers have focused specifically on this issue and designed a host of different M8 and M12 sensor-actuator cables so you are bound to find the solution you need for your application.

Our sensor cables come with 360° shielding which provides protection against electromagnetic interference. Is there something you have not managed to find or you feel needs explanation? Talk to us!

#### **General ordering data**

Version	Sensor/actuator line, One end without connector, M12, Number of poles: 12, 1.5 m, Socket, angled,
	Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No
Order No.	1424280150
Туре	SAIL-M12BW-12S1.5U
GTIN (EAN)	4050118228908
Qty.	1 pc(s).



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

REACH SVHC   Lead 7439-92-1   SCIP   e8d8af70-4c85-4483-bc8c-9bc6b598e2a9	Dimensions and weights			
Lead 7439-92-1   bc8c-9bc5b598e2a9	Net weight	80 g		
Lead 7439-92-1   bc8c-9bc5b598e2a9	Environmental Product Compl	liance		
Acceleration   5 m/s²   Bending cycles   1 mill	REACH SVHC	Lead 7439-92-1	SCIP	
Bending radius, min., moving   12 x cable diameter   Colour coding   Colour	Technical specifications for ca	able		
Bending radius, min, moving   12 x cable diameter   Cable length   No	Acceleration	5 m/s <sup>2</sup>	Bending cycles	1 mill
Cable length         Colour coding         black, yellow, pink, grey, pink, grey, pink, green, white, blue, violet, brown, red / blue           Configurable cable length         No         Core cross-section         0.14 mm²           Core in accordance with UL AWM style         10493 (80 °C / 300 V)         Halogen         No           Insulation         PP         Inradiation crosslinked         No           Number of poles         12         AWM style         20549 (80 °C / 300 V)           Sheath material         PUR         Sheathing colour         black           Shielded         Yes         Speed         100 m/min           Stitable for cable carriers         Yes         Temperature range, moving         -30.90 °C           Temperature range, stationary         40.90 °C         Temperature range, moving         -30.90 °C           Wire cross section (Print/Online)         0.25 (8-pole)/ 0.14 (12-pole)         Torsion resistance         0 °/m           General technical data           Coding         A         Connection thread         M12           Coding         A         Connection thread         M12           Leg Coding         Poly         Poly           Plugging cycles         ≥ 100         P				
Configurable cable length			-	black, yellow, pink, grey / pink, green, white, blue, violet, brown, red, grey,
Core in accordance with UL AWM style         10493 (80 °C / 300 V)         Halogen         No           Insulation         PP         Irradiation crosslinked         No           Number of poles         12         Outer cladding in accordance with UL AWM style         20549 (80 °C / 300 V)           Sheath material         PUR         Sheathing colour         black           Sheided         Yes         Speed         100 m/min           Suitable for cable carriers         Yes         Temperature range, moving         -30.90 °C           Temperature range, stationary         -4090 °C         Torsion resistance         0 °/m           General technical data           Coding         A         Connection thread         M12           Contact surface         Gold-plated         Housing main material         TPU           Insulation strength         10° Ω         LED         No           Plugging cycles         ≥ 100         Pollution severity         3           Rated voltage         30 V         Temperature range of housing         -40 +95 ° C           Threaded ring material         Diecast zinc         Tightening torque         M12: 0.8 - 1.2 Nm           Version         Socket, angled         pole)         1.5 A (2-pole)	Configurable cable length		Core cross-section	
Insulation   PP				
Number of poles         12         AWM style         20549 (80 °C / 300 V)           Sheath material         PUR         Sheathing colour         black           Shielded         Yes         Speed         100 m/min           Suitable for cable carriers         Yes         Temperature range, moving         -3090 °C           Temperature range, stationary         -4090 °C         Torsion resistance         0 °/m           General technical data           Coding         A         Connection thread         M12           Coding         A         Connection thread         M12           Contact surface         Gold-plated         Housing main material         TPU           Insulation strength         10° Ω         LED         No           Pollution severity         3         Rated current         1.5 A           Rated voltage         30 V         Temperature range of housing         -40+85 °C           Threaded ring material         Diecast zinc         Tightening torque         M12: 0.8 - 1.2 Nm           Version         Socket, angled         jumpered         No           Electrical properties           Rated current         2 A			<del>-</del>	
Spielded   Yes   Speed   100 m/min		12	•	
Suitable for cable carriers       Yes     Temperature range, moving     -3090 °C       Temperature range, stationary     -4090 °C       Torsion resistance     0 °/m       Wire cross section (Print/Online)     0.25 (8-pole)/ 0.14 (12-pole)       General technical data       Coding     A       Contact surface     Mol2-pole)       LED     No       Plugging cycles     ≥ 100     Pollution severity     3       Protection degree     IP65, IP66, IP67, when screwed in     Rated current       Bated voltage     30 V       Temperature range of housing     -40+85 ° C       Tightening torque     M12: 0.8 - 1.2 Nm       Version     Socket, angled       Electrical properties       Rated current     2 A (8-pole) / 1.5 A (12-pole)       Insulation strength     10° Ω       10° Ω       Rated current     2 A (8-pole) / 1.5 A (12-pole)       Protection degree     10° Ω     10	Sheath material	PUR	Sheathing colour	black
Temperature range, stationary 4090 °C Wire cross section (Print/Online) 0.25 (8-pole) / 0.14 (12-pole)  General technical data  Coding A Connection thread M12 Contact surface Gold-plated Housing main material TPU Insulation strength 10 8 Ω LED No Plugging cycles ≥ 100 Pollution severity 3 Rated voltage 30 V Temperature range of housing 40 +85 ° C Threaded ring material Diecast zinc Tightening torque M12: 0.8 - 1.2 Nm Version Socket, angled Jumpered No  Electrical properties  Insulation strength 10 8 Ω Rated current 2 A (8-pole) / 1.5 A (12-pole)  General standards  Connection thread M12 TPU LED No Pollution severity 3 Rated current 1.5 A Temperature range of housing 40 +85 ° C Tightening torque M12: 0.8 - 1.2 Nm Jumpered No  Electrical properties  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards	Shielded	Yes	Speed	100 m/min
Wire cross section (Print/Online)  O.25 (8-pole) / 0.14 (12-pole)  General technical data  Coding A Connection thread M12 Contact surface Gold-plated Housing main material TPU Insulation strength 10° Ω LED No Plugging cycles ≥ 100 Pollution severity 3 Protection degree IP65, IP66, IP67, when screwed in screwed in Screwed in Diecast zinc Tightening torque M12: 0.8 - 1.2 Nm Version Socket, angled Jumpered No  Electrical properties  Insulation strength 10° Ω Rated current 2 A (8-pole) / 1.5 A (12-pole)  Rated voltage 30 V Temperature range of housing -40 +85 ° C Tightening torque M12: 0.8 - 1.2 Nm Version Socket, angled Jumpered No  Electrical properties  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards	Suitable for cable carriers	Yes	Temperature range, moving	-3090 °C
General technical data  Coding A Connection thread M12 Contact surface Gold-plated Housing main material TPU Insulation strength 10 8 Ω LED No Plugging cycles ≥ 100 Pollution severity 3 Protection degree IP65, IP66, IP67, when screwed in Screwed in Socket, angled Threaded ring material Diecast zinc Tightening torque M12: 0.8 - 1.2 Nm Version Socket, angled Jumpered No  Electrical properties  Rated current 2 A (8-pole) / 1.5 A (12-pole) Rated voltage 30 V  General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards	Temperature range, stationary	-4090 °C	Torsion resistance	0 °/m
Coding       A       Connection thread       M12         Contact surface       Gold-plated       Housing main material       TPU         Insulation strength $10^8 \Omega$ LED       No         Plugging cycles $\geq 100$ Pollution severity       3         Protection degree       IP65, IP66, IP67, when screwed in screwed in       Rated current       1.5 A         Rated voltage       30 V       Temperature range of housing       -40 +85 ° C         Threaded ring material       Diecast zinc       Tightening torque       M12: 0.8 - 1.2 Nm         Version       Socket, angled       jumpered       No         Electrical properties         Insulation strength $10^8 \Omega$ Rated current $2 A (8 \text{-pole}) / 1.5 A (12 \text{-pole})$ Rated voltage $30 \text{ V}$ General standards         Certificate no. (cULus)       E307231       Connector standard       IEC 61076-2-101         Standards	· · · · · ·			
Contact surface       Gold-plated       Housing main material       TPU         Insulation strength       108 Ω       LED       No         Plugging cycles       ≥ 100       Pollution severity       3         Protection degree       IP65, IP66, IP67, when screwed in       Rated current       1.5 A         Rated voltage       30 V       Temperature range of housing       -40 +85 ° C         Threaded ring material       Diecast zinc       Tightening torque       M12: 0.8 - 1.2 Nm         Version       Socket, angled       jumpered       No         Electrical properties         Insulation strength       108 Ω       Rated current       2 A (8-pole) / 1.5 A (12-pole)         Rated voltage       30 V         General standards         Certificate no. (cULus)       E307231       Connector standard       IEC 61076-2-101         Standards	General technical data			
Contact surface       Gold-plated       Housing main material       TPU         Insulation strength       108 Ω       LED       No         Plugging cycles       ≥ 100       Pollution severity       3         Protection degree       IP65, IP66, IP67, when screwed in       Rated current       1.5 A         Rated voltage       30 V       Temperature range of housing       -40 +85 ° C         Threaded ring material       Diecast zinc       Tightening torque       M12: 0.8 - 1.2 Nm         Version       Socket, angled       jumpered       No         Electrical properties         Insulation strength       108 Ω       Rated current       2 A (8-pole) / 1.5 A (12-pole)         Rated voltage       30 V         General standards         Certificate no. (cULus)       E307231       Connector standard       IEC 61076-2-101         Standards	Cadina	۸	Commontion thread	M12
Insulation strength $10^8 \Omega$ LED       No         Plugging cycles       ≥ 100       Pollution severity       3         Protection degree       IP65, IP66, IP67, when screwed in       Rated current       1.5 A         Rated voltage       30 V       Temperature range of housing       -40 +85 ° C         Threaded ring material       Diecast zinc       Tightening torque       M12: 0.8 - 1.2 Nm         Version       Socket, angled       jumpered       No         Electrical properties         Insulation strength $10^8 \Omega$ Rated current $2 A (8-pole) / 1.5 A (12-pole)$ Rated voltage       30 V         General standards         Certificate no. (cULus)       E307231       Connector standard       IEC 61076-2-101         Standards	<u>_</u>			
Plugging cycles       ≥ 100       Pollution severity       3         Protection degree       IP65, IP66, IP67, when screwed in       Rated current       1.5 A         Rated voltage       30 V       Temperature range of housing       -40 +85 ° C         Threaded ring material       Diecast zinc       Tightening torque       M12: 0.8 - 1.2 Nm         Version       Socket, angled       jumpered       No         Electrical properties         Insulation strength       10 <sup>8</sup> Ω       Rated current       2 A (8-pole) / 1.5 A (12-pole)         Rated voltage       30 V         General standards         Certificate no. (cULus)       E307231       Connector standard       IEC 61076-2-101         Standards				
Protection degree IP65, IP66, IP67, when screwed in I.5 A  Rated voltage 30 V Temperature range of housing -40 +85 ° C Threaded ring material Diecast zinc Tightening torque M12: 0.8 - 1.2 Nm Version Socket, angled jumpered No  Electrical properties  Insulation strength 10 <sup>8</sup> Ω Rated current 2 A (8-pole) / 1.5 A (12-pole)  Rated voltage 30 V  General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards				
Screwed in 1.5 A  Rated voltage 30 V Temperature range of housing -40 +85 ° C Threaded ring material Diecast zinc Tightening torque M12: 0.8 - 1.2 Nm  Version Socket, angled jumpered No  Electrical properties  Insulation strength 10 ° Ω Rated current 2 A (8-pole) / 1.5 A (12-pole)  Rated voltage 30 V  General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards				3
Rated voltage       30 V       Temperature range of housing       -40 +85 ° C         Threaded ring material       Diecast zinc       Tightening torque       M12: 0.8 - 1.2 Nm         Version       Socket, angled       jumpered       No         Electrical properties         Insulation strength       Rated current       2 A (8-pole) / 1.5 A (12-pole)         Rated voltage       30 V         General standards         Certificate no. (cULus)       E307231       Connector standard       IEC 61076-2-101         Standards	Protection degree		Rated current	1 5 A
Threaded ring material Diecast zinc Tightening torque M12: 0.8 - 1.2 Nm Version Socket, angled jumpered No  Electrical properties  Insulation strength 10 <sup>8</sup> Ω Rated current 2 A (8-pole) / 1.5 A (12-pole)  General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards	Rated voltage		Temperature range of housing	
Version Socket, angled jumpered No  Electrical properties  Insulation strength 10 <sup>8</sup> Ω Rated current 2 A (8-pole) / 1.5 A (12-pole)  Rated voltage 30 V  General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards				
Electrical properties  Insulation strength  10 <sup>8</sup> Ω  Rated voltage  30 V   General standards  Certificate no. (cULus)  E307231  Connector standard  IEC 61076-2-101  Standards			- <del> </del>	
Insulation strength  10 <sup>8</sup> Ω  Rated voltage  30 V   General standards  Certificate no. (cULus)  E307231  Connector standard  IEC 61076-2-101  Standards		occinet, unigiou	Jamperea	
10 <sup>8</sup> Ω Rated voltage 30 V  General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards				
General standards  Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards			Rated current	
Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101  Standards	Rated voltage	30 V		
Standards	General standards			
	Certificate no. (cULus)	E307231	Connector standard	IEC 61076-2-101
Connector standard IEC 61076-2-101	Standards			
	Connector standard	IEC 61076-2-101		



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Technical data**

#### Classifications

ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ECLASS 9.0	27-06-03-11
ECLASS 9.1	27-06-03-11	ECLASS 10.0	27-06-03-11
ECLASS 11.0	27-06-03-11	ECLASS 12.0	27-06-03-11

#### **Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E307231

#### **Downloads**

Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN



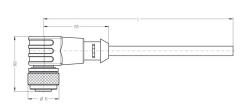
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

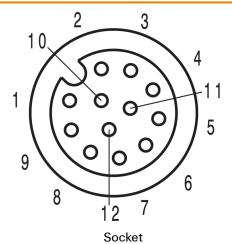
www.weidmueller.com

## **Drawings**

### **Dimensioned drawing**



#### Pole scheme



The ideal tool: Screwty ® with torque function

#### Wiring diagram



Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 1920000000 Adapters: M12, M12 F, M8, M8 F