

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















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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.

The M8 and M12 sensor-actuator cables are supplied as standard with brass nickel-plated nuts. However if you are looking to use our products in an extremely harsh environment, we can also supply a variant with a plastic nut. This enables use in environments where cables with nickel-plated M8 and M12 nuts would rust.

Is there something you have not managed to find or you feel needs explanation? Talk to us!

### **General ordering data**

Version	Sensor/actuator line, Connecting line, M12 / M12, Number of poles: 3, 7.5 m, pin, straight - socket, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<u>1150620750</u>
Туре	SAIP-M12GM12W-2/4-7.5U
GTIN (EAN)	4032248937738
Qty.	1 items

Catalogue status / Drawings



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## **Technical data**

Approvals
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Approvals	( C .(II)	IIV
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ROHS	Conform	
UL File Number Search	<u>UL Website</u>	
Certificate no. (cULus)	E307231	

### **Dimensions and weights**

Diameter	3.8 mm	Net weight	195.36 g

### **Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	1c533b66-fcff-4da5-b89f-fd55fbf5cb55

### **Technical specifications for cable**

Cable length	7.5 m	Sheathing colour	black
Resistance to oils	Yes	Suitable for cable carriers	Yes
Core cross-section	0.34 mm <sup>2</sup>	Shielded	No
Halogen	No	Insulation	PP
Acceleration	5 m/s <sup>2</sup>	Bending radius, min., moving	10 x cable diameter
Bending radius, min., stationary	5 x cable diameter	Bending cycles	12 Mio
Resistance to spread of flame	In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2	Speed	3.33 m/s
Sheath material	PUR	Configurable cable length	No
LABS-free	Yes	Hydrolysis and microbe resistant	Yes
Outer cladding in accordance with UL AWM style	20549 (80 °C / 300 V)	Core in accordance with UL AWM style	10493 (80 °C / 300 V)
Irradiation crosslinked	No	Welding spark resistance	No
Colour coding	brown, blue, black	Torsion resistance	180 °/m
Temperature range, stationary	-5080 °C	Resistant to welding beads	No
Bending cycles at torsion	> 5 Mio.	Temperature range, moving	-2560 °C
Length of torsion	1 m	Sheath material hygroscopic	Yes
Number of poles	3	Outside diameter	3.8 mm ± 0.15 mm

### **General technical data**

Coding	A-coded	Connection thread	M12 / M12
Contact surface	Gold-plated	LED	No
Version	pin, straight - socket, 90°	Housing main material	PUR
Insulation resistance	108 Ω	Nominal voltage	250 V
Nominal current	4 A	Protection degree	IP65, IP66, IP67, IP68, when screwed in
Plugging cycles	≥ 100	Pollution severity	3
jumpered	2/4	Threaded ring material	Plastic
Temperature range of housing	-25+85 °C	Tightening torque	M12 (plastic): 0.9 - 1.1 Nm

Creation date 29.11.2025 09:09:11 MEZ

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# **Technical data**

Electrical properties			
Insulation resistance	108 Ω	Nominal voltage	250 V
General standards			
Connector standard	IEC 61076-2-101	Certificate no. (cULus)	E307231
Standards			
Connector standard	IEC 61076-2-101		
Plug, left			
Plug left	M12, A-coded, IP69, male contact, straight, Plastic, unshielded		
Plug, right			
Plug right	M12, A-coded, IP69, female contact, angled 90°, Plastic, unshielded		
Classifications			
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0 ETIM 10.0	EC001855 EC001855	ETIM 9.0 ECLASS 9.0	EC001855 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
ECLASS 13.0	27-06-03-11	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		



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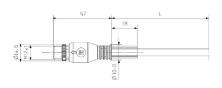
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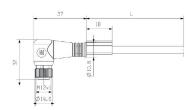
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## **Drawings**

### **Dimensioned drawing**





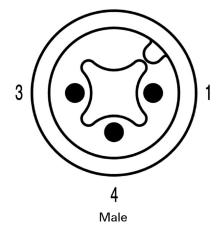


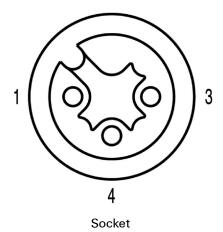
Male, straight

Angled socket

#### Pole scheme

### Pole scheme









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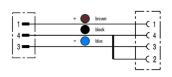
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## **Drawings**

### 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