

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.

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

General ordering data

Sensor/actuator line, Connecting line, M12 / M8, Number of poles: 4, 2.5 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
<u>9456660250</u>
SAIL-M12GM8G-4-2.5U
4032248283613
1 items





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Technical data

Approvals



ROHS Conform

Dimensions and weights

Net weight 78.2 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	2.5 m	Sheathing colour	black
Resistance to oils	Yes	PE function	No
Suitable for cable carriers	Yes	Core cross-section	0.25 mm ²
Shielded	No	Halogen	No
Insulation	PP	Acceleration	5 m/s ²
Bending radius, min., moving	10 x cable diameter	Bending radius, min., stationary	5 x cable diameter
Bending cycles	5 Mio	Resistance to spread of flame	In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2
Speed	200 m/min	Sheath material	PUR
Configurable cable length	No	LABS-free	Yes
Hydrolysis and microbe resistant	Yes	Outer cladding in accordance with UL AWM style	20233 (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, white, blue, black
Torsion resistance	360 °/m	Temperature range, stationary	-5080 °C
Resistant to welding beads	No	Bending cycles at torsion	> 5 Mio.
Temperature range, moving	-2580 °C	Length of torsion	1 m
Number of poles	4	Outside diameter	4.4 mm ± 0.2 mm

General technical data

Coding	M12 = A-coded / M8 = none	Connection thread	M12 / M8
Contact surface	Gold-plated	LED	No
Version	pin, straight - socket, straight	Housing main material	PUR
Insulation resistance	108 Ω	Contact material	CuZn35PB2
Nominal voltage	30 V	Nominal current	4 A
AF size	12 mm	Protection degree	IP65, IP66, IP67, IP68, IP69, when screwed in
Plugging cycles	≥ 100	Pollution severity	3
jumpered	No	Threaded ring material	Brass, nickel-plated, Diecast zinc
Temperature range of housing	-25+85 °C	Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm

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Catalogue status / Drawings 2





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Technical data

Electrical properties			
Insulation resistance	108 Ω	Nominal voltage	30 V
General standards			
Connector standard	IEC 61076-2-101, IEC 61076-2-104		
Standards			,
Connector standard	IEC 61076-2-101, IEC 61076-2-104		
Plug, left			
Plug left	connector, M12, A-coded, Number of poles: 4, IP69, male contact, straight, unshielded		
Plug, right			
Plug right	connector, M8, Number of poles: 4, IP69, female contact, straight, unshielded		
Classifications			
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ETIM 9.0	EC001855
ETIM 10.0	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
ECLASS 13.0	27-06-03-11	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		

Catalogue status / Drawings



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Drawings

Dimensioned drawing

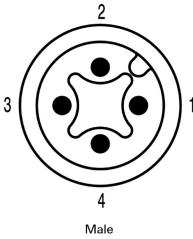
Dimensioned drawing

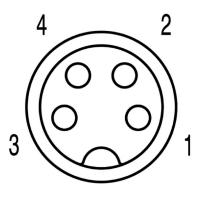
Pole scheme

Male, straight

Straight socket

Pole scheme





Socket





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Drawings

Wiring diagram

The ideal tool: Screwty ® with torque function



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