Data sheet

SAIV-M12BG-4B-3.0U

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.
The 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 stainless-steel nut. This enables use in environments where cables with nickel-plated M12 nuts would rust and cables with a plastic nut are unsuitable for mechanical reasons.
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 : 4, 3 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	2873710300
Type	SAIV-M12BG-4B-3.0U
GTIN (EAN)	4064675654278
Qty.	1 items

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Technical data

Approvals

ROHS	Conform

Dimensions and weights

Net weight	180 g

Technical specifications for cable

Cable length	3 m	Sheathing colour	black
Resistance to oils	Yes	Suitable for cable carriers	Yes
Core cross-section	0.34 mm²	Number of wires	4
Shielded	No	Halogen	No
Insulation	PP	Acceleration	5 m/s²
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
Cable length configurable	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)	Type is hybrid cable	No
Irradiation crosslinked	No	Welding spark resistance	No
Colour coding	brown, white, blue, black	Torsion resistance	180 °/m
Temperature range, stationary	-50...80 °C	Resistant to welding beads	No
Bending cycles at torsion	> 5 Mio.	Temperature range, moving	-25...60 °C
Torsional length	1 m	Number of poles	4

General technical data

Coding	B-coded	Connection thread	M12
Contact surface	Gold-plated	LED	No
Version	Female socket, straight	Housing main material	PUR
Insulation resistance	108 Ω	Contact material	Copper alloy
Nominal voltage	250 V	Nominal current	4 A
Protection degree	IP65, IP66, IP67, IP68, when screwed in	Plugging cycles	≥ 100
Pollution severity	3	jumpered	No
Threaded ring material	Stainless steel 1.4404 (316L)	Temperature range of housing	-25...+85 °C
Tightening torque	M12: 0.8 - 1.2 Nm		

Electrical properties

Insulation resistance	108 Ω	Nominal voltage	250 V

General standards

Connector standard	IEC 61076-2-101

Standards

Connector standard	IEC 61076-2-101

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Technical data

Plug, left

Plug left	M12, B-coded, Number of poles: 4, female contact, straight, plug, unshielded

Plug, right

Plug right	Free conductor end

Classifications

ETIM 8.0	EC001855	ETIM 9.0	EC001855
ETIM 10.0	EC001855	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		

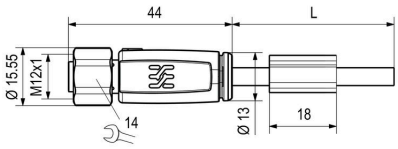
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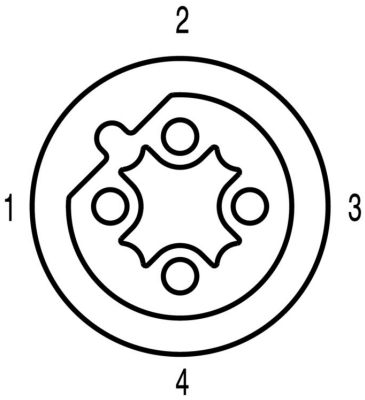
Drawings

Dimensional drawing



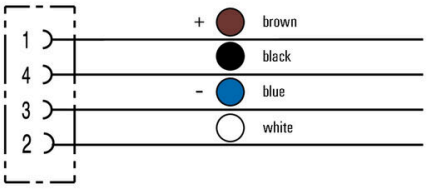
Straight socket

Pole scheme



SocketSocket

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

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Drawings