

## SAIP-M12GM12G-4-5.0U

**Weidmüller Interface GmbH & Co. KG**

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Germany

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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

Type	SAIP-M12GM12G-4-5.0U
Order No.	<a href="#">1108840500</a>
Version	Sensor/actuator line, Connecting line, M12 / M12, Number of poles : 4, 5 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
GTIN (EAN)	4032248888078
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Net weight 164 g

## Environmental Product Compliance

REACH SVHC Lead 7439-92-1

## Technical specifications for cable

Number of poles	4	Core cross-section	0.34 mm <sup>2</sup>
Outside diameter	4.7 mm ± 0.2 mm	Cable length	5 m
Shielded	No	Insulation	PP
Colour coding	brown, white, blue, black	Sheath material	PUR
Sheathing colour	black	Halogen	No
Temperature range, moving	-25...80 °C	Temperature range, stationary	-40...80 °C
Core in accordance with UL AWM style		Outer cladding in accordance with UL AWM style	20233 (80 °C / 300 V)
	10493 (80 °C / 300 V)	Torsion resistance	360 °/m
Suitable for cable carriers	Yes	Bending radius, min., moving	10 x cable diameter
Bending radius, min., stationary	5 x cable diameter	Speed	5 m/s
Acceleration	5 m/s <sup>2</sup>	Resistant to welding beads	No
Bending cycles	2 Mio	Hydrolysis and microbe resistant	Yes
Configurable cable length	No	Resistance to oils	in accordance with IEC 60811:404
LABS-free			
	Yes		
Resistance to spread of flame	in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2, In accordance with UL1581 UL/ CUL FT1		

## General technical data

AF size	12 mm	Version	pin, straight - socket, straight
Connection thread	M12 / M12	Housing main material	PUR
Threaded ring material	Plastic	Coding	A
Protection degree	IP65, IP66, IP67, IP68, when screwed in	Contact surface	Gold-plated
LED	No	Rated voltage	250 V
Rated current	4 A	Insulation strength	10 <sup>8</sup> Ω
Temperature range of housing	-25...+80 °C	Tightening torque	M12 (plastic): 0.9 - 1.1 Nm
Plugging cycles	≥ 100	Pollution severity	3
jumpered	No		

## Standards

Connector standard IEC 61076-2-101 Certificate no. (cULus) E307231

## Classifications

ETIM 6.0	EC001855	ETIM 7.0	EC001855
eClass 9.0	27-06-03-11	eClass 9.1	27-06-03-11
eClass 10.0	27-06-03-11		

Creation date July 5, 2020 9:32:41 AM CEST

Catalogue status 26.06.2020 / We reserve the right to make technical changes.

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**Data sheet****SAIP-M12GM12G-4-5.0U****Weidmüller Interface GmbH & Co. KG**  
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Approvals



ROHS

Conform

**Downloads**

Brochure/Catalogue	<a href="#">FL FIELDWIRING EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Product Change Notification	<a href="#">Technical change to M12 plastic nuts - EN</a> <a href="#">Technical change to M12 plastic nuts - DE</a>

**Data sheet**

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**Drawings**

**Dimensioned drawing**

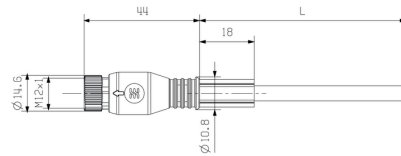


Male, straight

**Pole scheme**

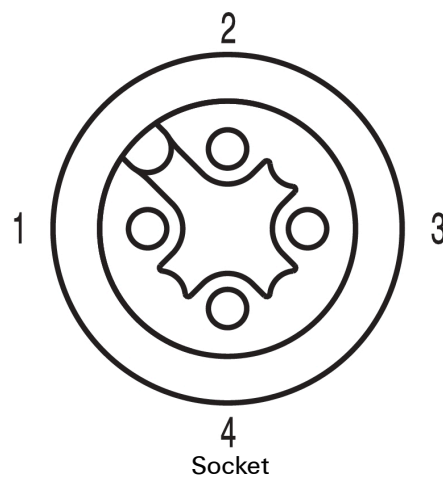


**Dimensioned drawing**

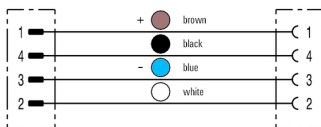


Straight socket

**Pole scheme**



**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