

#### 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 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: 4, 1 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<u>1108840100</u>
Туре	SAIP-M12GM12G-4-1.0U
GTIN (EAN)	4032248924530
Qty.	1 pc(s).



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# **Technical data**

Dimensions and weights			
Net weight	46 g		
Technical specifications fo	r cable		
Acceleration	E /a2	Dan din n avalas	12 Mio
Acceleration Bending cycles at torsion	5 m/s <sup>2</sup> > 5 Mio.	Bending cycles Bending radius, min., moving	10 x cable diameter
Bending radius, min., stationary	5 x cable diameter	Cable length	1 m
Colour coding	brown, white, blue, black	Configurable cable length	No
Core cross-section	0.34 mm <sup>2</sup>	Core in accordance with UL AWM style	
Halogen	No	Hydrolysis and microbe resistant	Yes
Insulation	PP	Irradiation crosslinked	No
LABS-free	Yes	Length of torsion	1 m
Number of poles	165	Outer cladding in accordance with UL	1 111
	4	AWM style	20549 (80 °C / 300 V)
Outside diameter	4.7 mm ± 0.2 mm	Resistance to oils	in accordance with IEC 60811:404
Resistance to spread of flame	In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2	Resistant to welding beads	No
Sheath material	PUR	Sheathing colour	black
Shielded	No	Speed	5 m/s
Suitable for cable carriers	Yes	Temperature range, moving	-2580 °C
Temperature range, stationary	-4080 °C	Torsion resistance	360 °/m
Welding spark resistance	No	-	,
General technical data	۸	Composition throad	NA12 / NA12
Contract curface	A Cold plated	Connection thread	M12 / M12 PUR
Contact surface	Gold-plated	Housing main material LED	
Insulation strength	10 <sup>8</sup> Ω		No
Plugging cycles	≥ 100	Pollution severity	3
Protection degree	IP65, IP66, IP67, IP68, when screwed in	Rated current	4 A
Rated voltage	250 V	Temperature range of housing	-40 +85 ° C
Threaded ring material	Plastic	Tightening torque	M12 (plastic): 0.9 - 1.1 Nm
Version	pin, straight - socket, straight	jumpered	No
Electrical properties			
Insulation strength	10 <sup>8</sup> Ω	Rated voltage	250 V
General standards	10 11	-	
Certificate no. (cULus)	E307231	Connector standard	IEC 61076-2-101
Standards			
Connector standard	IEC 61076-2-101		



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# **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

## **Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
SCIP	1c533b66-fcff-4da5-b89f-fd55fbf5cb55

#### **Approvals**

Approvals



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

### **Downloads**

Engineering Data	WSCAD
Product Change Notification	Technical change to M12 plastic nuts - EN
	Technical change to M12 plastic nuts - DE
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN



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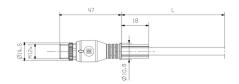
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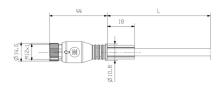
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# **Drawings**

## **Dimensioned drawing**

# **Dimensioned drawing**

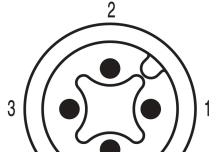




Male, straight

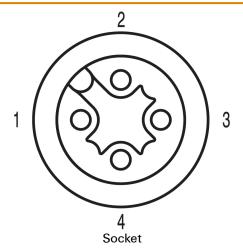
Straight socket

#### Pole scheme



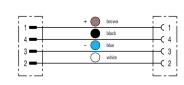
4 Male

### 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.: 192000000 Adapters: M12, M12 F, M8, M8 F