

## SAIP-M12GM12G-2/4-1.0U

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 : 3, 1 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<a href="#">1150610100</a>
Type	SAIP-M12GM12G-2/4-1.0U
GTIN (EAN)	4032248937592
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Net weight 40 g

## Environmental Product Compliance

REACH SVHC Lead 7439-92-1

## Technical specifications for cable

Acceleration	5 m/s <sup>2</sup>	Bending cycles	12 Mio
Bending radius, min., moving	10 x cable diameter	Bending radius, min., stationary	5 x cable diameter
Cable length	1 m	Colour coding	brown, blue, black
Configurable cable length	No	Core cross-section	0.34 mm <sup>2</sup>
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Halogen	No
Hydrolysis and microbe resistant	Yes	Insulation	PP
LABS-free	Yes	Number of poles	3
Outer cladding in accordance with UL AWM style	20233/21198 (80 °C / 300 V)	Outside diameter	4.3 mm ± 0.2 mm
Resistance to oils		Resistance to spread of flame	In accordance with UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2
	in accordance with IEC 60811:404	Sheath material	PUR
Resistant to welding beads	No	Shielded	No
Sheathing colour	black	Suitable for cable carriers	Yes
Speed	5 m/s	Temperature range, stationary	-40...80 °C
Temperature range, moving	-25...80 °C		
Torsion resistance	360 °/m		

## General technical data

AF size	12 mm	Coding	A
Connection thread	M12 / M12	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10 <sup>8</sup> Ω
LED	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	-25...+80 °C	Threaded ring material	Plastic
Tightening torque	M12 (plastic): 0.9 - 1.1 Nm	Version	pin, straight - socket, straight
jumpered	2/4		

## Standards

Connector standard IEC 61076-2-101

## 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		

Creation date July 16, 2021 11:10:24 AM CEST

Catalogue status 02.07.2021 / We reserve the right to make technical changes.

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# Technical data

## Approvals

Approvals



ROHS	Conform
UL File Number Search	E307231

## Downloads

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>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a>

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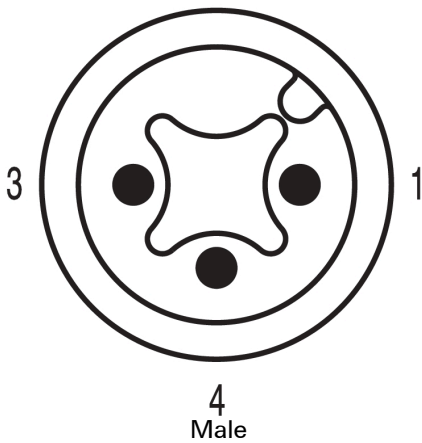
**Drawings**

**Dimensioned drawing**



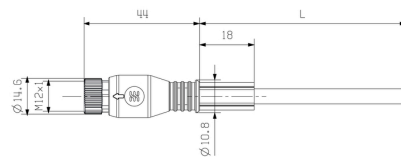
Male, straight

**Pole scheme**



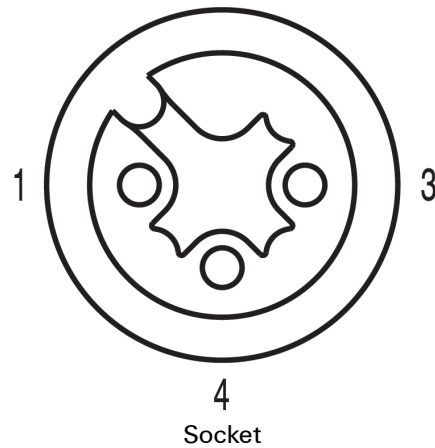
4  
Male

**Dimensioned drawing**



Straight socket

**Pole scheme**



4  
Socket

**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