

**SAIP-M12GM12SG-5-3.0U****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 : 5, 3 m, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<a href="#">2028150300</a>
Type	SAIP-M12GM12SG-5-3.0U
GTIN (EAN)	4050118423532
Qty.	1 items

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

Net weight 200 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	3 m	Sheathing colour	black (similar to RAL 9005)
Resistance to oils	Yes	Suitable for cable carriers	Yes
Core cross-section	0.34 mm <sup>2</sup>	Number of wires	5
Shielded	No	Halogen	No
Insulation	PP	Acceleration	5 m/s <sup>2</sup>
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
Configurable cable length	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)	Irradiation crosslinked	No
Welding spark resistance	No	Colour coding	brown, white, blue, black, grey
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	Length of torsion	1 m
Number of poles	5	Outside diameter	4.7 mm ± 0.15 mm

## General technical data

Coding	A-coded	Connection thread	M12 / M12
Contact surface	Gold-plated	LED	No
Housing main material	PUR	Insulation resistance	108 Ω
Nominal voltage	60 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	Plastic	Temperature range of housing	-25...+85 °C

## Electrical properties

Insulation resistance	108 Ω	Nominal voltage	60 V
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## Technical data

## General standards

Connector standard	IEC 61076-2-101
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## Standards

Connector standard	IEC 61076-2-101
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## Plug, left

Plug left	connector, M12, A-coded, Number of poles: 5, male contact, straight, unshielded
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## Plug, right

Plug right	connector, M12, A-coded, Number of poles: 5, male contact, straight, unshielded
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## 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

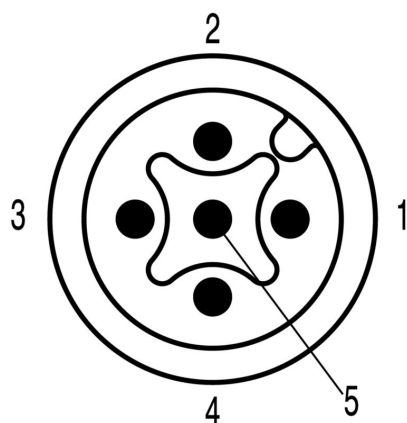
### Dimensioned drawing



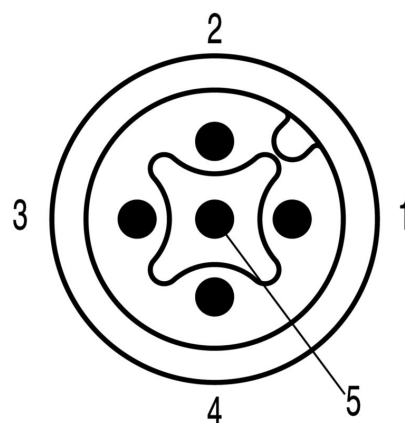
### Dimensioned drawing



### Pole scheme



### Pole scheme



### Wiring diagram

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### The ideal tool: Screwty® with torque function

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