

## SAIP-M12BG-4-3.0U

**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, 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.	<a href="#">1108740300</a>
Type	SAIP-M12BG-4-3.0U
GTIN (EAN)	4032248888443
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Net weight 101 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 cycles at torsion	> 5 Mio.	Bending radius, min., moving	10 x cable diameter
Bending radius, min., stationary	5 x cable diameter	Cable length	3 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	10493 (80 °C / 300 V)
Halogen	No	Hydrolysis and microbe resistant	Yes
Insulation	PP	LABS-free	Yes
Length of torsion	1 m	Number of poles	4
Outer cladding in accordance with UL AWM style	20233 (80 °C / 300 V)	Outside diameter	4.7 mm ± 0.2 mm
Resistance to oils		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
	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	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	-40 ... +85 °C	Threaded ring material	Plastic
Tightening torque	M12 (plastic nut): 0.6 - 0.8 Nm	Version	Female socket, straight
jumpered	No		

**Electrical properties**Insulation strength 10<sup>8</sup> Ω      Rated voltage 250 V**General standards**

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

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## Technical data

## Standards

Connector standard	IEC 61076-2-101
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## 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		

## Approvals

Approvals



ROHS	Conform
UL File Number Search	E307231

## Downloads

Engineering Data	<a href="#">CAD data – STEP</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>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a>

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**Drawings**

**Dimensioned drawing**



Straight socket

**Pole scheme**



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

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## Accessories

## Screwty® cable gland tool with torque function



## The ideal tool for any application

Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

## General ordering data

Type	SAI-SCREWTY BOX	Version
Order No.	<a href="#">1939180000</a>	Bolting tool
GTIN (EAN)	4032248615506	
Qty.	1 pc(s).	
Type	SCREWTY-M12-DM	Version
Order No.	<a href="#">1900001000</a>	Cable gland tool for moulded M12 lines
GTIN (EAN)	4032248436408	
Qty.	1 pc(s).	
Type	SCREWTY SW12	
Order No.	<a href="#">2598970000</a>	
GTIN (EAN)	4050118781151	
Qty.	1 pc(s).	

## Tools



- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- No play in self-adjusting cutting unit
- Long service life
- Optimised ergonomic design

## General ordering data

Type	STRIPPER 6-16 RED-LINE	Version
Order No.	<a href="#">9203110000</a>	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 pc(s).	

Creation date January 20, 2022 5:45:08 PM CET

Catalogue status 14.01.2022 / We reserve the right to make technical changes.

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**Accessories**

**Tools**

Sheathing stripper for PVC cables



**General ordering data**

Type	AM 12	Version
Order No.	<a href="#">9030060000</a>	Tools, Sheathing strippers
GTIN (EAN)	4008190337827	
Qty.	1 pc(s).	

**Blank**



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the PrintJet CONNECT, plotter or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

**General ordering data**

Type	TM-I 18 MC NE WS	Version
Order No.	<a href="#">1718431044</a>	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	

**Data sheet**

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**Accessories**

Type	TM-I 18 MC NE GE	Version	
Order No.	<a href="#">1718431687</a>	TM-I, Insert markers, 18 x 4 mm, yellow	
GTIN (EAN)	4008190349028		
Qty.	320 pc(s).		

**Cutting tools**



Cutting tools for conductors up to 8 mm, 12 mm, 14 mm and 22 mm outside diameter. The special blade geometry allows pinch-free cutting of copper and aluminium conductors with minimum physical effort. The cutting tools also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

**General ordering data**

Type	KT 8	Version	
Order No.	<a href="#">9002650000</a>	Cutting tools, Cutting tool for one-hand operation	
GTIN (EAN)	4008190020163		
Qty.	1 pc(s).		

# Mouser Electronics

Authorized Distributor

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