

**SAIP-M12WM12W-4-5.0U****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 : 4, 5 m, pin, 90&deg; - socket 90&deg;; Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<a href="#">1108710500</a>
Type	SAIP-M12WM12W-4-5.0U
GTIN (EAN)	4032248888559
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Net weight	182 g
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## 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	5 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	Irradiation crosslinked	No
LABS-free	Yes	Length of torsion	1 m
Number of poles	4	Outer cladding in accordance with UL 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	-25...80 °C
Temperature range, stationary	-40...80 °C	Torsion resistance	360 °/m
Welding spark resistance	No		

## General technical data

Coding	A-coded	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...+85 °C
Threaded ring material	Plastic	Tightening torque	M12 (plastic): 0.9 - 1.1 Nm
Version	pin, 90&deg; - socket 90&deg;	jumpered	No

## Electrical properties

Insulation strength	10 <sup>8</sup> Ω	Rated voltage	250 V
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## General standards

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

Connector standard	IEC 61076-2-101
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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Plug, left**

Plug left	M12, A-coded, IP69, male contact, angled 90°, Plastic, unshielded
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**Plug, right**

Plug right	M12, A-coded, IP69, female contact, angled 90°, Plastic, unshielded
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**Classifications**

ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ETIM 9.0	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	ECLASS 13.0	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**

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

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## Drawings

### Dimensioned drawing



Male, angled

### Pole scheme



### Dimensioned drawing



Angled 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

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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).	
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).	

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## Accessories

## 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 (KT 8 to KT 22) 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).	

## 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	SCREWTY SW12	Version	Packaging
Order No.	<a href="#">2598970000</a>	Interchangeable blade for cable gland tool	Cardboard box
GTIN (EAN)	4050118781151		
Qty.	1 pc(s).		
Type	SCREWTY-M12-DM	Version	Packaging
Order No.	<a href="#">1900001000</a>	Cable gland tool for moulded M12 lines	Cardboard box
GTIN (EAN)	4032248436408		
Qty.	1 pc(s).		
Type	SAI-SCREWTY BOX	Version	Packaging
Order No.	<a href="#">1939180000</a>	Bolting tool	Plastic case
GTIN (EAN)	4032248615506		+ form
Qty.	1 pc(s).		insert

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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).	

**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).	