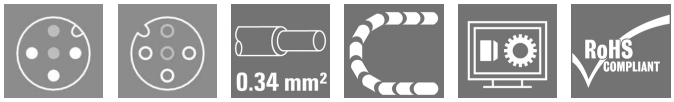
SAIP-M12GM12W-3-1.5U

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 : 3, 1.5 m, pin, straight - socket, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	1108870150
Type	SAIP-M12GM12W-3-1.5U
GTIN (EAN)	4032248888016
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Net weight	63 g

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Technical specifications for cable

Acceleration	5 m/s²	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	1.5 m
Colour coding	brown, blue, black	Configurable cable length	No
Core cross-section	0.34 mm²	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	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	in accordance with IEC 60811:404	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
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		

General technical data

AF size	12 mm	Coding	A
Connection thread	M12 / M12	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10^8 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): 0.9 - 1.1 Nm	Version	pin, straight - socket, 90°
jumpered	No		

Electrical properties

Insulation strength	10^8 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

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	EPLAN, WSCAD
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN

Weidmüller

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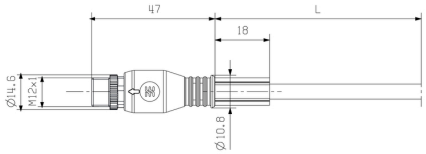
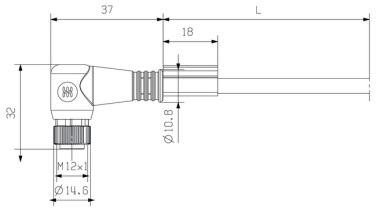
Drawings

Dimensioned drawing



Male, straight

Dimensioned drawing

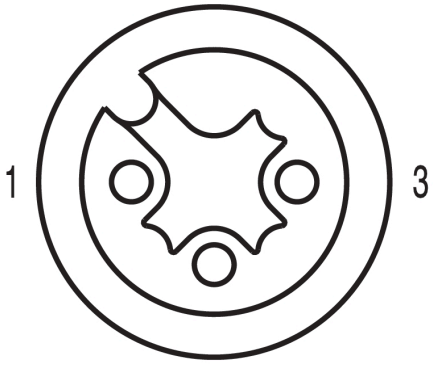


Angled socket

Pole scheme

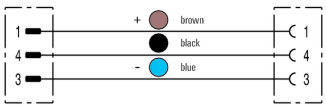
Male

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

Creation date January 20, 2022 6:04:01 PM CET

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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.	1939180000	Bolting tool
GTIN (EAN)	4032248615506	
Qty.	1 pc(s).	

Type	SCREWTY-M12-DM	Version
Order No.	1900001000	Cable gland tool for moulded M12 lines
GTIN (EAN)	4032248436408	
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.	9203110000	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 pc(s).	

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Accessories

Tools

Sheathing stripper for PVC cables

General ordering data

Type	AM 12	Version
Order No.	9030060000	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.	1718431044	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	

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Accessories

Type	TM-I 18 MC NE GE	Version
Order No.	1718431687	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.	9002650000	Cutting tools, Cutting tool for one-hand operation
GTIN (EAN)	4008190020163	
Qty.	1 pc(s).	

Mouser Electronics

Authorized Distributor

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Weidmuller:
1108870150