

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, 5 m, pin, straight -
	socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<u>1150610500</u>
Туре	SAIP-M12GM12G-2/4-5.0U
GTIN (EAN)	4032248937639
Qty.	1 pc(s).

Technical data



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Bending radius, min., stationary 5 x cable diameter Cable leng Colour coding brown, blue, black Configural Core cross-section 0.34 mm² Core in acc Halogen No Hydrolysis Insulation PP LABS-free Length of torsion 1 m Number of Outer cladding in accordance with UL 20233/21198 (80 °C / Outside dia AWM style 300 V) Resistance to oils Resistance in accordance with IEC 60811:404 Sheath ma Sheathing colour black Shielded Speed 5 m/s Suitable fo		
Technical specifications for cable Acceleration 5 m/s² Bending c) Bending cycles at torsion > 5 Mio. Bending ra Bending radius, min., stationary 5 x cable diameter Cable leng Core cross-section 0.34 mm² Core in acc Halogen No Hydrolysis Insulation PP LABS-free Length of torsion 1 m Number of Outer cladding in accordance with UL 20233/21198 (80 °C / atcome accordance with IEC 60811:404 Outside dia Resistance to oils in accordance with IEC 60811:404 Sheath ma Sheathing colour black Shielded Speed 5 m/s Suitable fo Temperature range, moving -2580 °C Temperature range Torsion resistance 360 °/m Suitable fo General technical data M12 / M12 Contact su Housing main material PUR Insulation at the suitable fo Pollution severity 3 Rated volta Temperature range, moving -2580 °C Temperature suitable fo Connection thread M12 / M12 Contact su		
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Sheathing colour black Shielded Speed 5 m/s Suitable fo Temperature range, moving -2580 °C Temperatu Torsion resistance 360 °/m Temperatu General technical data AF size 12 mm Coding Connection thread M12 / M12 Contact su Housing main material PUR Insulation statement LED No Plugging c Pollution severity 3 Rated current Temperature range of housing -40 +85 ° C Threaded r Tightening torque M12 (plastic): 0.9 - 1.1 Nm Version jumpered 2/4 Electrical properties Solutable former statement	terial	PUR
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3 Rated current 4 A Rated volta Temperature range of housing -40 +85 ° C Threaded r Tightening torque M12 (plastic): 0.9 - 1.1 Nm Version umpered 2/4 Electrical properties		≥ 100
Temperature range of housing -40 +85 ° C Threaded r Tightening torque M12 (plastic): 0.9 - 1.1 Nm Version umpered 2/4 Electrical properties		IP65, IP66, IP67, IP68, when screwed in
Tightening torque M12 (plastic): 0.9 - 1.1 Nm umpered 2/4	•	250 V
M12 (plastic): 0.9 - 1.1 Nm umpered 2/4	ing material	Plastic
Electrical properties		pin, straight - socket, straight
nsulation strength $10^8 \Omega$ Rated volta		
	ge	250 V
General standards		
Certificate no. (cULus) E307231 Connector	standard	IEC 61076-2-101

Technical data



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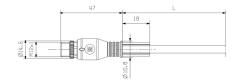
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Standards			
Connector standard	IEC 61076-2-101		
Classifications			
FT IL 4 0 0	50004055		50004055
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ECLASS 9.0	27-06-03-11
ECLASS 9.1	27-06-03-11	ECLASS 10.0	27-06-03-11
ECLASS 11.0	27-06-03-11		
Approvals			
Approvals	ເເ		
ROHS	Conform		
UL File Number Search	E307231		
Downloads			
Engineering Data	EPLAN, WSCAD		
Product Change Notification	Technical change to I	M12 plastic nuts - EN	
Catalanuas		M12 plastic nuts - DE	
Catalogues	Catalogues in PDF-for	mat	
Brochures	<u>FL FIELDWIRING EN</u>		

Drawings

Dimensioned drawing



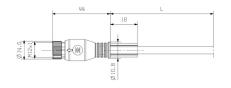


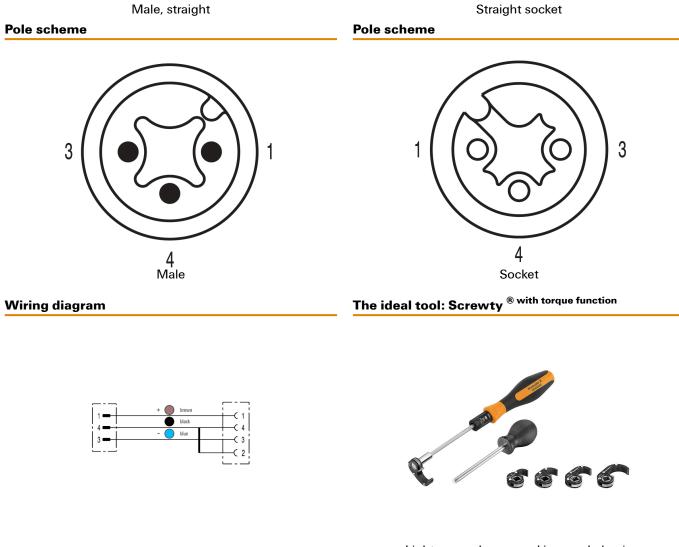
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Dimensioned drawing





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 21, 2022 8:55:05 AM 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

Туре	SAI-SCREWTY BOX	Version
Order No.	<u>1939180000</u>	Bolting tool
GTIN (EAN)	4032248615506	
Qty.	1 pc(s).	
Туре	SCREWTY-M12-DM	Version
Order No.	<u>1900001000</u>	Cable gland tool for moulded M12 lines
Order No. GTIN (EAN)	<u>1900001000</u> 4032248436408	Cable gland tool for moulded M12 lines

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

Туре	STRIPPER 6-16 RED-LINE	Version
Order No.	<u>9203110000</u>	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 pc(s).	



Tools



General ordering data

Туре	AM 12
Order No.	<u>9030060000</u>
GTIN (EAN)	4008190337827
Qty.	1 pc(s).

Tools, Sheathing strippers

Version

Blank





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Sheathing stripper for PVC cables

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. Preattachment 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 GE

 Order No.
 1718431687

 GTIN (EAN)
 4008190349028

 Qty.
 320 pc(s).

TM-I, Insert markers, 18 x 4 mm, yellow

Creation date January 21, 2022 8:55:05 AM CET

Version



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Accessories

Туре	TM-I 18 MC NE WS	Version
Order No.	<u>1718431044</u>	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
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

KT 8	Version
<u>9002650000</u>	Cutting tools, Cutting tool for one-hand operation
4008190020163	
1 pc(s).	
	<u>9002650000</u> 4008190020163

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Weidmuller: <u>1150610500</u>