

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.

Our sensor cables come with 360° shielding which provides protection against electromagnetic interference. 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, 0.2 m, pin, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No
Order No.	1906480020
Туре	SAIL-M12G-4S0.2U
GTIN (EAN)	4050118292992
Qty.	1 pc(s).



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Technical data

Net weight 20.24 g		
	20.24 d	

Technical specifications for cable

Acceleration	5 m/s ²	Bending cycles	2 Mio
Bending radius, min., moving	10 x cable diameter	Bending radius, min., stationary	5 x cable diameter
Cable length	0.2 m	Colour coding	black, brown, white
Configurable cable length	No	Core cross-section	0.34 mm ²
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
Number of poles	4	Outer cladding in accordance with UL AWM style	20549 (80 °C / 30
Outside diameter	5.4 mm ± 0.2 mm	Resistance to oils	in accordance with 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	Yes	Speed	200 m/s
Suitable for cable carriers	Yes	Temperature range, moving	-2580 °C
Temperature range, stationary	-4080 °C	Torsion resistance	0 °/m
Welding spark resistance	No		

General technical data

Coding	A-coded	Connection thread	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	-25+85 °C
Threaded ring material	Diecast zinc	Tightening torque	M12: 0.8 - 1.2 Nm
Version	pin, straight	jumpered	No

Electrical properties

Insulation strength	$10^{8} \Omega$	Rated voltage	250 V

General standards

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

Connector standard	IEC 61076-2-101
Connector standard	1EC 0 10 / 0-2-10 1

Plug, left

Plug left	M12, A-coded, IP69, male	
9		
	contact, straight, Plastic,	
	shielded	



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Technical data

Plug, right

Plug right	free conductor end		
Classifications			
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ETIM 9.0	EC001855
ETIM 10.0	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	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://
	mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E307231

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

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN



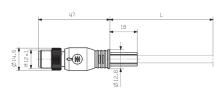
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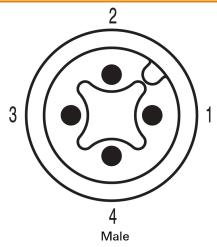
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Drawings

Dimensioned drawing

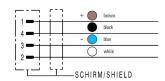


Pole scheme



The ideal tool: Screwty [®] with torque function

Wiring diagram





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

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

Order No. <u>9203110000</u> GTIN (EAN) 4032248541423

GIIN (EAN) 403224854142

Qty. 1 pc(s).

Version

Stripping and cutting tool

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
 Versio

 Order No.
 9002650000
 Cuttin

GTIN (EAN) 4008190020163

Qty. 1 pc(s).

Cutting tools, Cutting tool for one-hand operation



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Accessories

Tools



Sheathing stripper for PVC cables

General ordering data

Type AM 12
Order No. 9030060000
GTIN (EAN) 4008190337827

1 pc(s).

VEISIOII

Tools, Sheathing strippers

Blank

Qty.



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-lnk 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
Oty. 320 pc(s).

Version

TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, yellow



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Accessories

Type TM-I 18 MC NE WS
Order No. 1718431044
GTIN (EAN) 4008190349011

320 pc(s).

Version

TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, white

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	Packaging
Order No.	<u>1939180000</u>	Bolting tool	Plastic case
GTIN (EAN)	4032248615506		+ form
Qty.	1 pc(s).		insert
Туре	SCREWTY-M12-DM	Version	Packaging
Type Order No.	SCREWTY-M12-DM 1900001000	Version Cable gland tool for moulded M12 lines	Packaging Cardboard