

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















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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.

Is there something you have not managed to find or you feel needs explanation? Talk to us!

General ordering data

Sensor/actuator line, Connecting line, M12 / M8, Number of poles: 4, 3 m, pin, straight - socket, 90°, Shielded: No, LED: Yes, Sheath material: PVC, Halogen: Yes
<u>1962300300</u>
SAIL-M12GM8W-4L3.0V
4032248643363
1 items
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Technical data

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Approvals



ROHS Conform

Dimensions and weights

Net weight 105 g

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	1c533b66-fcff-4da5-b89f-fd55fbf5cb55

Technical specifications for cable

Cable length	3 m	Sheathing colour	black
Suitable for cable carriers	No	Core cross-section	0.25 mm ²
Shielded	No	Halogen	Yes
Insulation	PVC	Sheath material	PVC
Configurable cable length	No	Outer cladding in accordance with UL AWM style	2464 (80 °C / 300 V)
Irradiation crosslinked	No	Welding spark resistance	No
Colour coding	brown, white, blue, black	Torsion resistance	0 °/m
Temperature range, stationary	-3080 °C	Resistant to welding beads	No
Temperature range, moving	-580 °C	Number of poles	4
Outside diameter	4.8 mm + 0.2 mm		

General technical data

M12 = A-coded, M8 =	Connection thread	M12 / M8
Gold-plated	 LED	Yes
pin, straight - socket, 90°	Housing main material	PUR
108 Ω	Nominal voltage	24 V
4 A	Protection degree	IP67, IP68, when screwed in, IP65, IP66
≥ 100	Pollution severity	3
No	Threaded ring material	Diecast zinc
-25+85 °C	Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm
	none Gold-plated pin, straight - socket, 90° 108 Ω 4 A ≥ 100 No	none Gold-plated pin, straight - socket, 90° 108 Ω A A Protection degree ≥ 100 No Pollution severity No Threaded ring material

Electrical properties

Insulation resistance	108 Ω	Nominal voltage	24 V

General standards

Connector standard	IEC 61076-2-101, IEC 61076-2-104	

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27-06-03-11

27-06-03-11

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Technical data

ECLASS 11.0

ECLASS 13.0

ECLASS 15.0

Standards			
			'
Connector standard	IEC 61076-2-101, IEC 61076-2-104		
Plug, left			
Plug left	M12, A-coded, IP69, male contact, straight, Plastic, unshielded		
Plug, right			
Plug right	M8, IP69, female contact, angled 90°, Plastic, LED, unshielded		
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 12.0

ECLASS 14.0

27-06-03-11

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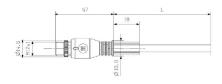
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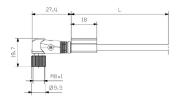
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Drawings

Dimensioned drawing

Dimensioned drawing



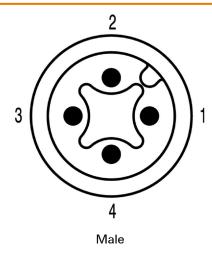


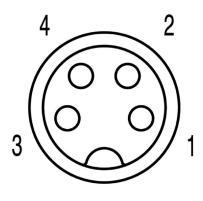
Male, straight

Angled socket

Pole scheme

Pole scheme





Socket





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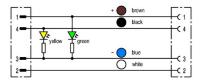
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Drawings

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

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 Ve
Order No. 9002650000 Cu
GTIN (EAN) 4008190020163

GTIN (EAN) 400819002016

Qty. 1 ST

Version

Cutting tools, Cutting tool for one-hand operation

Tools



Sheathing stripper for PVC cables

General ordering data

 Type
 AM 12
 Version

 Order No.
 9030060000
 Tools, Sheathing strippers

 GTIN (EAN)
 4008190337827

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.



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Accessories

General ordering data

Туре	SCREWTY-M12-DM	Version
Order No.	<u>1900001000</u>	Cable gland tool for moulded M12 lines
GTIN (EAN)	4032248436408	
Qty.	1 ST	
Туре	SCREWTY SW12	Version
Order No.	<u>2598970000</u>	Interchangeable blade for cable gland tool
GTIN (EAN)	4050118781151	
Qty.	1 ST	
Туре	SAI-SCREWTY BOX	Version
Order No.	<u>1939180000</u>	Bolting tool
GTIN (EAN)	4032248615506	
Qty.	1 ST	

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.	9203110000	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 ST	



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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. 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

Туре	TM-I 18 MC NE WS	Version
Order No.	<u>1718431044</u>	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 ST	
Туре	TM-I 18 MC NE GE	Version
Order No.	<u>1718431687</u>	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, yellow
GTIN (EAN)	4008190349028	
Qty.	320 ST	