

### 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.

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, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<u>1021720500</u>
Туре	SAIL-M12GM12W-3-5.0T
GTIN (EAN)	4032248735358
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2025-11-29T00:00:00+01:00



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## **Technical data**

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Approvals	
Дриочаіз	
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ROHS	Conform
UL File Number Search	<b>UL Website</b>
Certificate no. (cULus)	E307231

## **Dimensions and weights**

Net weight 158.4 g

### **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

## **Technical specifications for cable**

Cable length	5 m	Sheathing colour	black
Suitable for cable carriers	Yes	Core cross-section	0.34 mm <sup>2</sup>
Shielded	No	Halogen	No
Insulation	PP	Acceleration	5 m/s <sup>2</sup>
Bending radius, min., moving	7.5 x cable diameter	Bending radius, min., stationary	4 x cable diameter
Bending cycles	10 Mio	Speed	200 m/s
Sheath material	PUR	Configurable cable length	Yes
Outer cladding in accordance with UL AWM style	20233 (80 °C / 300 V)	Irradiation crosslinked	No
Welding spark resistance	Yes	Colour coding	brown, blue, black
Torsion resistance	360 °/m	Temperature range, stationary	-40105 °C
Resistant to welding beads	Yes	Temperature range, moving	-30105 °C
Number of poles	3	Outside diameter	4.9 mm ± 0.2 mm

## General technical data

Coding	A-coded	Connection thread	M12 / M12
Contact surface	Gold-plated	LED	No
Version	pin, straight - socket, 90°	Housing main material	PUR
Insulation resistance	108 Ω	Nominal voltage	250 V
Nominal current	4 A	Protection degree	IP67, IP68, when fully mounted, IP65, IP66
Plugging cycles	≥ 100	Pollution severity	3
jumpered	No	Threaded ring material	Diecast zinc
Temperature range of housing	-25+85 °C	Shock and vibration proof according to	Section B
Tightening torque	M12: 0.8 - 1.2 Nm		

### **Electrical properties**

Insulation resistance	108 Ω	Nominal voltage	250 V

Creation date 04.11.2025 09:25:27 MEZ







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# **Technical data**

General standards			
Connector standard	IEC 61076-2-101	Certificate no. (cULus)	E307231
Standards			
Connector standard	IEC 61076-2-101	Shock and vibration proof according to	Section B
Plug, left			
Plug left	M12, A-coded, IP69, male contact, straight, Plastic, unshielded		
Plug, right			
Plug right	M12, A-coded, IP69, female contact, angled 90°, Plastic, unshielded		
Classifications			
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ETIM 9.0	EC001855 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		



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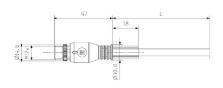
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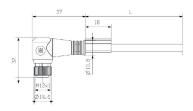
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## **Drawings**

## **Dimensioned drawing**





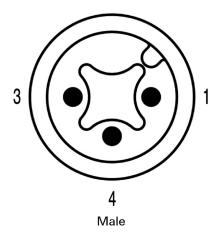


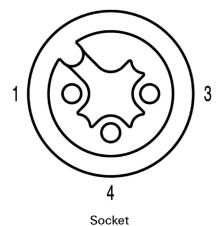
Male, straight

Angled socket

### Pole scheme

## Pole scheme









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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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## **Acces**sories

### **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. 9002650000 Cutting tools, Cutt

GTIN (EAN) 4008190020163

Qty. 1 ST

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**

Type	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**

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	
Type	TM-I 18 MC NE GE	Version
Type Order No.	TM-I 18 MC NE GE 1718431687	Version TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, yellow