

#### 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: 4, 5 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	<u>1906300500</u>
Туре	SAIL-M12GM12G-4-5.0U
GTIN (EAN)	4050118006650
Qty.	1 pc(s).

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# **Technical data**

-			
Dim	ensions	and	weights

Net weight	169 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	5 m
Colour coding	brown, white, blue, black	Configurable cable length	Yes
Core cross-section	0.34 mm <sup>2</sup>	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	4
Outer cladding in accordance with UL AWM style	20233 (80 °C / 300 V)	Outside diameter	4.7 mm ± 0.2 mm
Resistance to oils	in accordance with IEC 60811:404	Resistance to spread of flame	in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2, In accordance with UL1581 UL/ CUL FT1
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	-2580 °C	Temperature range, stationary	-4080 °C
Torsion resistance	360 °/m		

### **General technical data**

AF size	12 mm	Coding	Α
Connection thread	M12 / M12	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10 <sup>8</sup> Ω
LED	No	Plugging cycles	≥ 100
Pollution severity		Protection degree	IP65, IP66, IP67, IP68,
	3		when screwed in, IP69
Rated current	4 A	Rated voltage	250 V
Shock and vibration proof according to	Section B	Temperature range of housing	-40 +85 ° C
Threaded ring material	Diecast zinc	Tightening torque	M12: 0.8 - 1.2 Nm
Version	pin, straight - socket, 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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# **Technical data**

#### **Standards**

Connector standard	IEC 61076-2-101	Shock and vibration proof according to	Section B
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
Product Change Notification	DE - Technische Änderung zu M12 Gewindering mit 6-Kant
	EN - Technical change to M12 nut with additional hexagonal mounting
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN
	<u>FL FIELDWIRING EN</u>



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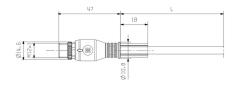
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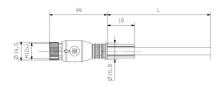
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# **Drawings**

### **Dimensioned drawing**

### **Dimensioned drawing**

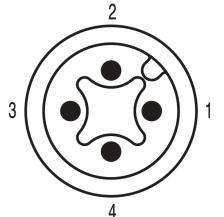




Male, straight

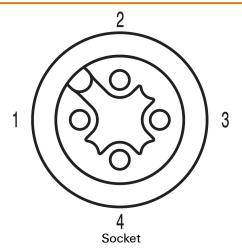
Straight socket

#### Pole scheme



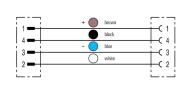
Male

### Pole scheme



Wiring diagram







Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 192000000 Adapters: M12, M12 F, M8, M8 F



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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	SCREWTY SW12	
Order No.	2598970000	
GTIN (EAN)	4050118781151	
Qty.	1 pc(s).	
Туре	SCREWTY-M12-DM	Version
Order No.	1900001000	Cable gland tool for moulded M12 lines
GTIN (EAN)	4032248436408	
Qty.	1 pc(s).	
Туре	SAI-SCREWTY BOX	Version
Order No.	<u>1939180000</u>	Bolting tool
GTIN (EAN)	4032248615506	
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
Order No. 9030060000
GTIN (EAN) 4008190337827

1 pc(s).

Version

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
Qty. 320 pc(s).

Version

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



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# Accessories

TM-I 18 MC NE WS Туре Order No. 1718431044

4008190349011 320 pc(s).

Version

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

### **Cutting tools**

GTIN (EAN)



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**

Туре 9002650000 Order No. GTIN (EAN) 4008190020163

1 pc(s).

Qty.

Version

Cutting tools, Cutting tool for one-hand operation

# **Mouser Electronics**

**Authorized Distributor** 

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

<u>Weidmuller</u>: 1906300500