

## SAIL-M12BG-4-5.0UGE

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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

Type	SAIL-M12BG-4-5.0UGE
Order No.	<a href="#">1092920500</a>
Version	Sensor/actuator line, One end without connector, M12, Number of poles : 4, 5 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
GTIN (EAN)	4032248865918
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Net weight 163 g

### Temperatures

Operating temperature range, max.	80 °C	Operating temperature range, min.	-25 °C
Operating temperature, max.	80 °C	Operating temperature, min.	-25 °C

### Environmental Product Compliance

REACH SVHC Lead 7439-92-1

### Technical specifications for cable

Number of poles	4	Core cross-section	0.34 mm <sup>2</sup>
Outside diameter	4.7 ± 0.2 mm	Cable length	5 m
Shielded	No	Insulation	PP
Colour coding	brown, white, blue, black	Sheath material	PUR
Sheathing colour	yellow	Halogen	No
Temperature range, moving	-25...80 °C	Temperature range, stationary	-40...80 °C
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Outer cladding in accordance with UL AWM style	20233 (80 °C / 300 V)
Suitable for cable carriers	Yes	Torsion resistance	360 °/m
Bending radius, min., stationary	5 x cable diameter	Bending radius, min., moving	10 x cable diameter
Acceleration	5 m/s <sup>2</sup>	Speed	5 m/s
Bending cycles	5 Mio	Resistant to welding beads	No
Hybrid cable	No	Irradiation crosslinked	No
Configurable cable length	No	Hydrolysis and microbe resistant	Yes
LABS-free	Yes	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

### General technical data

Version	Female socket, straight	Connection thread	M12
Housing main material	PUR	Threaded ring material	Brass, nickel-plated
Coding	A	Protection degree	IP65, IP66, IP67, IP68, when screwed in
Contact surface	Gold-plated	LED	No
Rated voltage	250 V	Rated current	4 A
Insulation strength	10 <sup>8</sup> Ω	Temperature range of housing	-25...+85 °C
Tightening torque	M12: 0.8 - 1.2 Nm	Plugging cycles	≥ 100
Pollution severity	3	jumpered	No

### Standards

Connector standard	IEC 61076-2-101	Certificate no. (cULus)	E307231
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**Technical data****Classifications**

ETIM 3.0	EC001855	ETIM 4.0	EC001855
ETIM 5.0	EC001855	ETIM 6.0	EC001855
eClass 5.1	27-06-91-90	eClass 6.2	27-06-91-90
eClass 7.1	27-06-91-90	eClass 8.1	27-06-91-90
eClass 9.0	27-06-03-11	eClass 9.1	27-06-03-11

**Approvals**

Approvals



ROHS Conform

**Downloads**

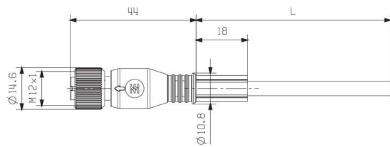
Brochure/Catalogue [FL FIELDWIRING EN](#)  
Engineering Data [EPLAN, WSCAD](#)

SAIL-M12BG-4-5.0UGE

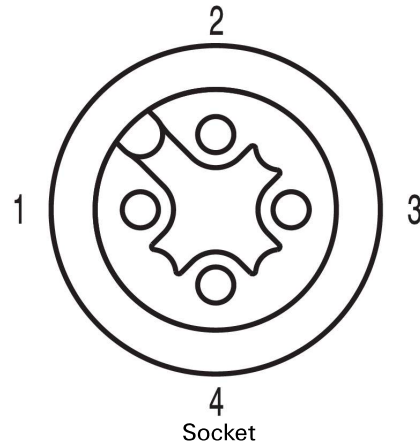
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Drawings

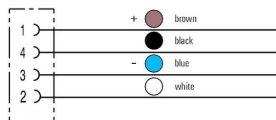
Dimensioned drawing



Pole scheme



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

## Blank



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are five different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment 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 SMark laser printer, PrintJet ADVANCED, plotter, MC-Mobilo 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	Order No.	Version	GTIN (EAN)	Qty.
TM-I 18 MC NE WS	<a href="#">1718431044</a>	TM-I, Insert markers, 18 x 4	4008190349011	320 pc(s).
TM-I 18 MC NE GE	<a href="#">1718431687</a>	TM-I, Insert markers, 18 x 4	4008190349028	320 pc(s).
		mm, white		
		mm, yellow		

## Cutting tools for outside diameters up to 22 mm



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

Type	Order No.	Version	GTIN (EAN)	Qty.
KT 8	<a href="#">9002650000</a>	Cutting tools ,Cutting tool for one-hand operation	4008190020163	1 pc(s).

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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**

Type	Order No.	Version	GTIN (EAN)	Qty.
SAI-SREWTTY BOX	<a href="#">1939180000</a>	Tools, Bolting tool	4032248615506	1 pc(s).

**Tool**



Tools for stripping the sheathing from uncut power lines and outlet lines, plus screwdrivers for installing Pick-to-Light components.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
Screwty-M12- DM	<a href="#">1900001000</a>	Tools, Cable gland tool for moulded M12 lines	4032248436408	1 pc(s).

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**Accessories****Tools**

Sheathing stripper for PVC cables

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
AM 12	<a href="#">9030060000</a>	Tools, Sheathing strippers, UTP and STP data cables	4008190337827	1 pc(s).