

SAIL-M12GM12W-4-3.0UGE**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, 3 m, pin, straight-socket, 90°. Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	1093070300
Type	SAIL-M12GM12W-4-3.0UGE
GTIN (EAN)	4032248865321
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS

Conform

Dimensions and weights

Net weight

88 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

3 m

Resistance to oils

in accordance with IEC
60811:404

Core cross-section

0.34 mm²

Halogen

No

Acceleration

5 m/s²

Bending radius, min., stationary

5 x cable diameter

Resistance to spread of flame

In accordance with
UL1581 UL / CUL FT2,
in accordance with IEC
60332-2-2

Sheath material

PUR

LABS-free

Yes

Outer cladding in accordance with UL
AWM style

20549 (80 °C / 300 V)

Irradiation crosslinked

No

Colour coding

brown, white, blue, black

Temperature range, stationary

-40...80 °C

Bending cycles at torsion

> 5 Mio.

Length of torsion

1 m

Outside diameter

4.7 mm ± 0.2 mm

Sheathing colour

yellow

Suitable for cable carriers

Yes

Shielded

No

Insulation

PP

Bending radius, min., moving

10 x cable diameter

Bending cycles

5 Mio

Speed

5 m/s

Configurable cable length

Yes

Hydrolysis and microbe resistant

Yes

Core in accordance with UL AWM style

10493 (80 °C / 300 V)

Welding spark resistance

No

Torsion resistance

360 °/m

Resistant to welding beads

No

Temperature range, moving

-25...80 °C

Number of poles

4

General technical data

Coding

A-coded

Contact surface

Gold-plated

Version

pin, straight - socket, 90°

Insulation resistance

108 Ω

Nominal current

4 A

Plugging cycles

≥ 100

jumpered

No

Temperature range of housing

-25...+85 °C

Tightening torque

M12: 0.8 - 1.2 Nm

Connection thread

M12 / M12

LED

No

Housing main material

PUR

Nominal voltage

250 V

Protection degree

IP67, IP68, when fully
mounted, IP65, IP66

Pollution severity

3

Threaded ring material

Brass, nickel-plated

Shock and vibration proof according to

Section B

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Technical data**Electrical properties**

Insulation resistance	108 Ω	Nominal voltage	250 V
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General standards

Connector standard	IEC 61076-2-101
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Standards

Connector standard	IEC 61076-2-101	Shock and vibration proof according to	Section B
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Plug, left

Plug left	M12, A-coded, IP69, male contact, straight, Plastic, unshielded
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Plug, right

Plug right	M12, A-coded, IP69, female contact, angled 90°, Plastic, unshielded
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Classifications

ETIM 8.0	EC001855	ETIM 9.0	EC001855
ETIM 10.0	EC001855	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		

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Drawings

Dimensioned drawing



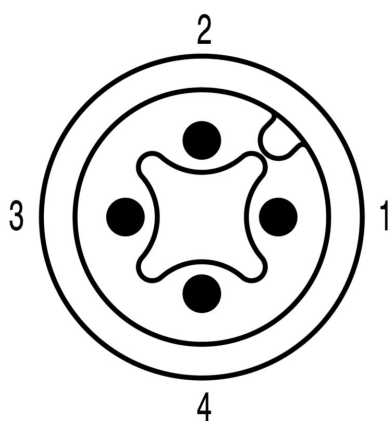
Male, straight

Dimensioned drawing



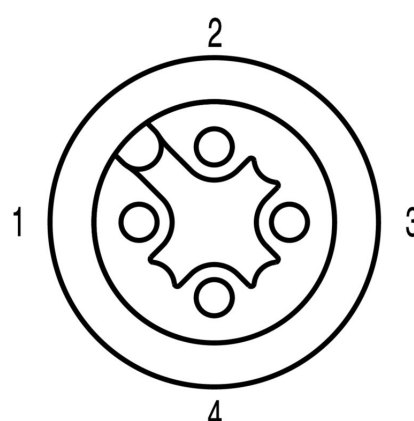
Angled socket

Pole scheme



Male

Pole scheme



Socket

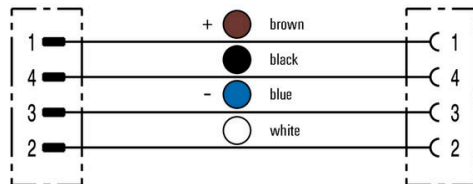
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Drawings

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	Version
Order No.	9002650000	Cutting tools, Cutting tool for one-hand operation
GTIN (EAN)	4008190020163	
Qty.	1 ST	

Tools



Sheathing stripper for PVC cables

General ordering data

Type	AM 12	Version
Order No.	9030060000	Tools, Sheathing strippers
GTIN (EAN)	4008190337827	
Qty.	1 ST	

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

Type	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. 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 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-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	TM-I 18 MC NE WS	Version
Order No.	1718431044	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
Order No.	1718431687	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, yellow
GTIN (EAN)	4008190349028	
Qty.	320 ST	