

SAIL-M12GM12W-4-3.0UGE

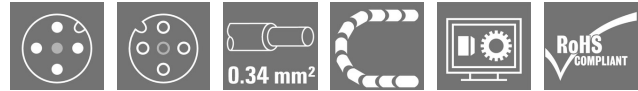
Weidmüller Interface GmbH & Co. KG

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 pc(s). |

Creation date January 20, 2022 3:11:04 PM CET

SAIL-M12GM12W-4-3.0UGE

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Net weight 88 g

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Technical specifications for cable

| | | | |
|--|----------------------------------|--------------------------------------|---|
| Acceleration | 5 m/s ² | Bending cycles | 5 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 | 3 m |
| Colour coding | brown, white, blue, black | Configurable cable length | Yes |
| Core cross-section | 0.34 mm ² | 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 | yellow | Shielded | No |
| Speed | 5 m/s | Suitable for cable carriers | Yes |
| Temperature range, moving | -25...80 °C | Temperature range, stationary | -40...80 °C |
| Torsion resistance | 360 °/m | | |

General technical data

| | | | |
|--|-----------------------------|------------------------------|--|
| AF size | 12 mm | Coding | A |
| Connection thread | M12 / M12 | Contact surface | Gold-plated |
| Housing main material | PUR | Insulation strength | 10 ⁸ Ω |
| LED | No | Plugging cycles | ≥ 100 |
| Pollution severity | 3 | Protection degree | IP67, IP68, when fully mounted, IP65, IP66 |
| 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 | Brass, nickel-plated | Tightening torque | M12: 0.8 - 1.2 Nm |
| Version | pin, straight - socket, 90° | jumpered | No |

Electrical properties

Insulation strength 10⁸ Ω Rated voltage 250 V

General standards

Certificate no. (cULus) E307231 Connector standard IEC 61076-2-101

SAIL-M12GM12W-4-3.0UGE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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 Gewinding mit 6-Kant EN - Technical change to M12 nut with additional hexagonal mounting |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN |

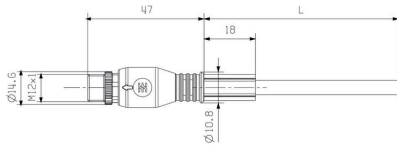
SAIL-M12GM12W-4-3.0UGE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

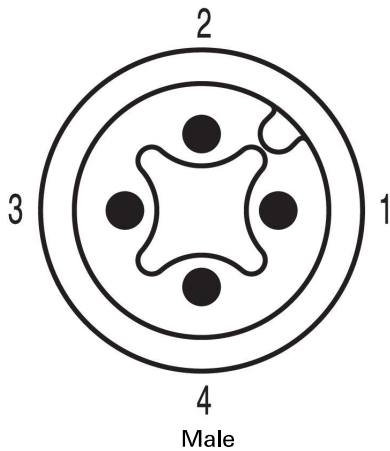
Drawings

Dimensioned drawing

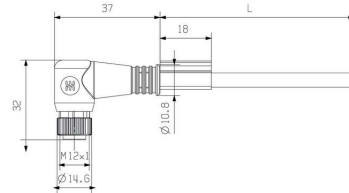


Male, straight

Pole scheme

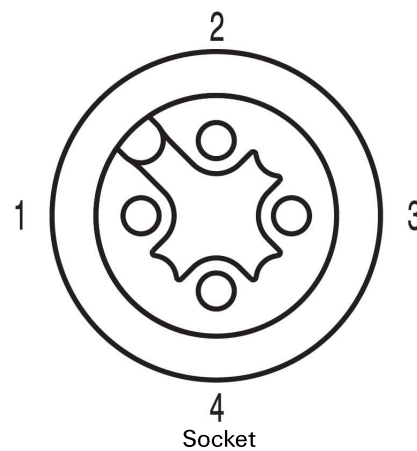


Dimensioned drawing

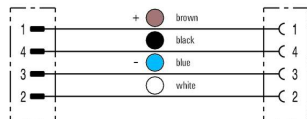


Angled socket

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

SAIL-M12GM12W-4-3.0UGE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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 | SAI-SCREWTY BOX | Version |
| Order No. | 1939180000 | Bolting tool |
| GTIN (EAN) | 4032248615506 | |
| Qty. | 1 pc(s). | |
| Type | SCREWTY-M12-DM | Version |
| Order No. | 1900001000 | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248436408 | |
| Qty. | 1 pc(s). | |
| Type | SCREWTY SW12 | |
| Order No. | 2598970000 | |
| GTIN (EAN) | 4050118781151 | |
| 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). | |

SAIL-M12GM12W-4-3.0UGE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

Tools

Sheathing stripper for PVC cables



General ordering data

| | | | |
|------------|----------------------------|----------------------------|--|
| Type | AM 12 | Version | |
| Order No. | 9030060000 | Tools, Sheathing strippers | |
| GTIN (EAN) | 4008190337827 | | |
| Qty. | 1 pc(s). | | |

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, 18 x 4 mm, white | |
| GTIN (EAN) | 4008190349011 | | |
| Qty. | 320 pc(s). | | |

SAIL-M12GM12W-4-3.0UGE

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Accessories

| | | |
|------------|----------------------------|---|
| Type | TM-I 18 MC NE GE | Version |
| Order No. | 1718431687 | TM-I, Insert markers, 18 x 4 mm, yellow |
| GTIN (EAN) | 4008190349028 | |
| Qty. | 320 pc(s). | |

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 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 pc(s). | |