**Weidmüller 3E**

# SAIL-M12BW-4-10UGE

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-M12BW-4-10UGE |
| Order No. | 1092961000 |
| Version | Sensor/actuator line, One end without connector, M12, Number of poles : 4, 10 m, Socket, angled, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| GTIN (EAN) | 4032248865741 |
| Qty. | 1 pc(s). |

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# SAIL-M12BW-4-10UGE

## Technical data

### Dimensions and weights

| | |
|---|---|
| Net weight | 317 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 mm² |
| Outside diameter | 4.7 mm ± 0.2 mm | Cable length | 10 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/s² | Speed | 5 m/s |
| Bending cycles | 5 Mio | Resistant to welding beads | No |
| Configurable cable length | No | Hydrolysis and microbe resistant | Yes |
| LABS-free | Yes | 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 | | |

### General technical data

| | | | |
|---|---|---|---|
| AF size | 12 mm | Version | Socket, angled |
| 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 | $10^8$ Ω |
| Temperature range of housing | -25...+80 °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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**SAIL-M12BW-4-10UGE**

## Technical data

### Classifications

| ETIM 6.0 | EC001855 | ETIM 7.0 | EC001855 |
|---|---|---|---|
| eClass 9.0 | 27-06-03-11 | eClass 9.1 | 27-06-03-11 |
| eClass 10.0 | 27-06-03-11 | | |

### Approvals

| Approvals | |
|---|---|



| ROHS | Conform |
|---|---|

### Downloads

| Brochure/Catalogue | FL FIELDWIRING EN |
|---|---|
| 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 |

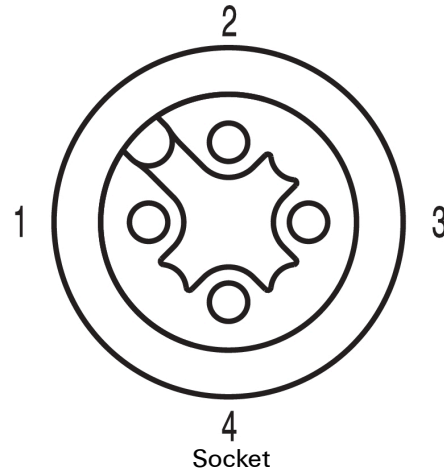Creation date May 1, 2020 6:24:05 PM CEST

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# SAIL-M12BW-4-10UGE

## Drawings

### Dimensioned drawing



### Pole scheme



Socket
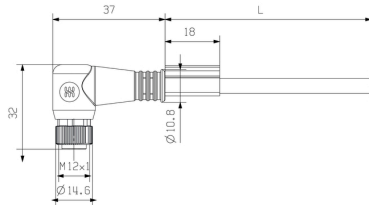
### Wiring diagram



### 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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# SAIL-M12BW-4-10UGE

## Accessories

### Tools

Sheathing stripper for PVC cables

#### General ordering data

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

### 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 | KT 8 | Version | |
|------|------|---------|--|
| Order No. | 9002650000 | Cutting tools ,Cutting tool for one-hand operation | |
| GTIN (EAN) | 4008190020163 | | |
| Qty. | 1 pc(s). | | |

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## Accessories

### 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, 16mm² | |
| GTIN (EAN) | 4032248541423 | | |
| Qty. | 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 | SCREWTY-M12-DM | Version | |
|---|---|---|---|
| Order No. | 1900001000 | Tools, Cable gland tool for moulded M12 lines | |
| GTIN (EAN) | 4032248436408 | | |
| Qty. | 1 pc(s). | | |

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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## SAIL-M12BW-4-10UGE

## 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 | 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). | | |
| 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). | | |

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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 | SAI-SCREWTY BOX | Version | |
|---|---|---|---|
| Order No. | 1939180000 | Tools, Bolting tool | |
| GTIN (EAN) | 4032248615506 | | |
| Qty. | 1 pc(s). | | |
| Type | SCREWTY SW12 | | |
| Order No. | 2598970000 | | |
| GTIN (EAN) | 4050118781151 | | |
| Qty. | 1 pc(s). | | |

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