

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, straight, Shielded: No, LED: No, Sheath material: PVC, Halogen: Yes |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Order No. | <u>1925310300</u> |
| Туре | SAIL-M12GM12G-4-3.0V |
| GTIN (EAN) | 4032248567584 |
| Qty. | 1 pc(s). |



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Technical data

| Dimensions and weights | | | |
|--------------------------------------|-------------------------------------------------------------------------|----------------------------------------|-------------------------------------|
| | | | |
| Net weight | 147 g | | |
| Technical specifications for c | able | | |
| Cable length | 3 m | Colour coding | brown, white, blue, black |
| Configurable cable length | Yes | Core cross-section | 0.34 mm ² |
| Halogen | Yes | Insulation | PVC |
| Irradiation crosslinked | No | Number of poles | 4 |
| Outer cladding in accordance with UL | | Outside diameter | |
| AWM style | 2464 (80 °C / 300 V) | | $5.3 \text{ mm} \pm 0.2 \text{ mm}$ |
| Resistant to welding beads | No | Sheath material | PVC |
| Sheathing colour | black | Shielded | No |
| Suitable for cable carriers | No | Temperature range, moving | -580 °C |
| Temperature range, stationary | -3080 °C | Torsion resistance | 0 °/m |
| Welding spark resistance | No | | |
| General technical data | | | |
| | A 1 1 | | N440 / N440 |
| Coding | A-coded | 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 | -25+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 Ω | Rated voltage | 250 V |
| General standards | | | |
| Certificate no. (cULus) | E307231 | Connector standard | IEC 61076-2-101 |
| Standards | 1307231 | Connector standard | 120 0 10 70 - 2 - 10 1 |
| otanuarus | | | |
| Connector standard | IEC 61076-2-101 | Shock and vibration proof according to | Section B |
| Plug, left | | | |
| Plus loft | M12 A coded IDCOI- | | |
| Plug left | M12, A-coded, IP69, male contact, straight, Plastic, unshielded | | |
| Plug, right | | | |
| Company management and a | C.,7,,2EDD2 | Combo at monto del constant | C7=2EDD2 |
| Contact material, pin | CuZn35PB2 | Contact material, socket | CuZn35PB2 |
| Contact surface | Gold-plated | Housing main material | PUR |
| Plug right | M12, A-coded, IP69, female contact, straight, Plastic, unshielded | Plugging cycles | ≥ 100 |
| | riasuc, unsuleided | | = IUU |

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Technical data

Classifications

| ETIM 6.0 | EC001855 | ETIM 7.0 | EC001855 |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001855 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-06-03-11 | ECLASS 13.0 | 27-06-03-11 |

Environmental Product Compliance

| REACH SVHC | Lead 7439-92-1 |
|------------|--------------------------------------|
| SCIP | 1c533b66-fcff-4da5-b89f-fd55fbf5cb55 |

Approvals

Approvals



| ROHS | Conform |
|-------------------------|------------|
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E307231 |

Downloads

| 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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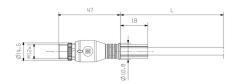
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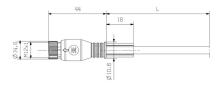
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Drawings

Dimensioned drawing

Dimensioned drawing



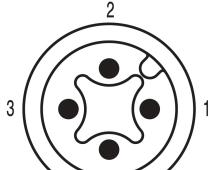


Male, straight

ale, Straight

Straight socket

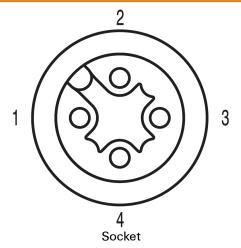
Pole scheme



Male

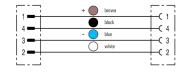
4

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 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

| Туре | TM-I 18 MC NE GE | Version |
|-------------------|--------------------------------|------------------------------------------------|
| Order No. | <u>1718431687</u> | TM-I, Insert markers, 18 x 4 mm, yellow |
| GTIN (EAN) | 4008190349028 | |
| Qty. | 320 pc(s). | |
| | | |
| Туре | TM-I 18 MC NE WS | Version |
| Type Order No. | TM-I 18 MC NE WS 1718431044 | Version TM-I, Insert markers, 18 x 4 mm, white |
| | | |



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Accessories

Tools



Sheathing stripper for PVC cables

General ordering data

Type AM 12
Order No. 9030060000
GTIN (EAN) 4008190337827
Oty. 1 pc(s).

Version

Tools, Sheathing strippers

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
Order No. 9002650000
GTIN (EAN) 4008190020163
Oty. 1 pc(s).

Version

Cutting tools, Cutting tool for one-hand operation



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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 | SAI-SCREWTY BOX | Version | Packaging |
|------------|-------------------|--------------------------------------------|--------------|
| Order No. | <u>1939180000</u> | Bolting tool | Plastic case |
| GTIN (EAN) | 4032248615506 | | + form |
| Qty. | 1 pc(s). | | insert |
| Туре | SCREWTY-M12-DM | Version | Packaging |
| Order No. | 1900001000 | Cable gland tool for moulded M12 lines | Cardboard |
| GTIN (EAN) | 4032248436408 | | box |
| Qty. | 1 pc(s). | | |
| Туре | SCREWTY SW12 | Version | Packaging |
| Order No. | <u>2598970000</u> | Interchangeable blade for cable gland tool | Cardboard |
| GTIN (EAN) | 4050118781151 | | box |
| 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).