

IE-C5DD4UG0200MCAXXX-X

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

www.weidmueller.com



Assembled IE cables, PROFINET, Cat. 5, PUR, green, drag-chain compatible, M12

General ordering data

| | |
|------------|---|
| Version | Dragline cable, PROFINET, M12 D-code – IP 67 angled pin, Open, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 20 m |
| Order No. | 1059750200 |
| Type | IE-C5DD4UG0200MCAXXX-X |
| GTIN (EAN) | 4050118323573 |
| Qty. | 1 items |

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Technical data

Approvals

ROHS Conform

Dimensions and weights

| | | | |
|------------|--------|-----------------|---------------|
| Length | 20 m | Length (inches) | 787.4016 inch |
| Net weight | 1256 g | | |

Temperatures

| | | | |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature | -50 °C...70 °C | Operating temperature | -40 °C...70 °C |
| Installation temperature | -20 °C...60 °C | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 67cf1078-beca-4687-860b-dc475a6ec24a |

Cable specific standards

| | | | |
|-------------------------------|---|-------------------------|-----------------------|
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, wire material | DIN EN 13602 Cu-ETP-A |
| Standard, shielding material | DIN EN 13602 Cu-ETP-A..B | | |

Standards

| | | | |
|-------------------------------|---|-------------------------|-----------------------|
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, wire material | DIN EN 13602 Cu-ETP-A |
| Standard, shielding material | DIN EN 13602 Cu-ETP-A..B | | |

Cable structure

| | | | |
|------------------------------|---|---------------------------------------|-----------------------------------|
| Strands | 7 | Sheathing colour | green (RAL 6018) |
| Standard designations | 2YH(ST)C11Y 2x2x0,75/1,5-100 LI VZN GN FRNC | Cross-section | 4*AWG 22/7 - 0.32 mm ² |
| Shielding | SF/UTP | Number of wires | 4 |
| Insulation cross-section | 1.5 mm | Insulation | PE |
| Sheath diameter, max. | 6.7 mm | Sheath diameter, min. | 6.3 mm |
| Material sheath | PUR | Filler | As central element |
| Arrangement of wire cores | Star-quad | Wire core insulation thickness | 0.38 mm |
| Complete shielding | Aluminium foil, Shielding braid made from copper wiring | Overlap of shielding braid | 85 % |
| Wire material | Stranded tin-plated copper wire | Diameter of inner sheathing | 3.9 mm |
| Sheathing material thickness | 0.9 mm | Colour sequence or wires - wire pairs | white, yellow, blue, orange |
| Shielding braid thickness | 0.13 mm | | |

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Electrical properties of cable

| | | | |
|-------------------------|--|--------------------------------|--------------------------------------|
| Category | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) | Speed | 180 m/min |
| Capacity at 1 kHz | 52 nF/km | Loop resistance | 120 Ω/km |
| Signal propagation time | 5.3 ns/m | Test voltage: wire-wire-shield | 2000 V _{eff} , 50 Hz, 1 min |
| Resistance differential | 3 % | Operating voltage, UL | 600 V |
| Delay skew | 40 ns/100m | Operating voltage (UL rating) | 600 V |
| Transfer impedance | 20 mΩ/m at 10 MHz | Characteristic impedance | 100 ± 15 Ω at 1–100 MHz |

Mechanical and material properties of cable

| | | | |
|---------------------------------|---|--------------------------------|--------------------|
| Resistance to oils | in accordance with IEC 60811-2-1 | Silicone-free | Yes |
| UV-resistant | Yes | Pulling force | ≤ 150 N |
| Halogen | halogen-free, according to IEC 60754-2 | Acceleration | 4 m/s ² |
| Min. bending radius, repetitive | 7.5 x cable diameter | Min. bending radius, once only | 5 x cable diameter |
| Abrasion resistance | very good | Bending cycles | 3 Mio |
| Resistance to spread of flame | in accordance with IEC 60332-1 | Speed | 180 m/min |
| Fire propagation | No | | |

Plug, left

| | |
|-----------|---|
| Plug left | M12, D-coded, IP67, male contact, angled 90°, plug, Plastic, shielded |
|-----------|---|

Plug, right

| | |
|------------|--------------------|
| Plug right | free conductor end |
|------------|--------------------|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002599 | ETIM 9.0 | EC002599 |
| ETIM 10.0 | EC002599 | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 | | |

Drawings

| | M12 |
|--------|-----|
| yellow | 1 |
| white | 2 |
| orange | 3 |
| blue | 4 |

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Accessories

Screwty® cable gland tool



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 | SCREWTY SET | Version | |
| Order No. | 1910000000 | | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436842 | | |
| 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.

General ordering data

| | | | |
|------------|----------------------------|---------|---|
| Type | SCREWTY SET -DM | Version | |
| Order No. | 1920000000 | | Cable gland tool for M8, M12 lines and connectors |
| GTIN (EAN) | 4032248436859 | | |
| Qty. | 1 ST | | |

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General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | SCREWTY- M12 | Version | |
| Order No. | 1900000000 | | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248375868 | | |
| Qty. | 1 ST | | |

Screwty® cable gland tool with torque function



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 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 | SCREWTY-M12-DM | Version | |
| Order No. | 1900001000 | | Cable gland tool for moulded M12 lines |
| GTIN (EAN) | 4032248436408 | | |
| Qty. | 1 ST | | |

Tools



Sheathing stripper for PVC cables

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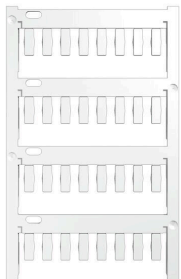
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Accessories

General ordering data

| | | |
|------------|----------------------------|----------------------------|
| Type | AM 12 | Version |
| Order No. | 9030060000 | Tools, Sheathing strippers |
| GTIN (EAN) | 4008190337827 | |
| Qty. | 1 ST | |
| Type | IE-CST | Version |
| Order No. | 9204350000 | Tools, Sheathing strippers |
| GTIN (EAN) | 4032248653072 | |
| Qty. | 1 ST | |

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 12 MC NE WS | Version |
| Order No. | 1718411044 | TM-I, Insert markers, 12 x 4 mm, white |
| GTIN (EAN) | 4008190348977 | |
| Qty. | 320 ST | |
| 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 | |