

IE-C5DD4UG0020MCAMCA-E**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, M12 D-code – IP 67 angled pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2 m |
| Order No. | 1059890020 |
| Type | IE-C5DD4UG0020MCAMCA-E |
| GTIN (EAN) | 4050118245684 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Length | 2 m | Length (inches) | 78.74 inch |
| Net weight | 155 g | | |

Temperatures

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

Cable specific standards

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

General standards

| | |
|-------------------------|---------|
| Certificate no. (cULus) | E316369 |
|-------------------------|---------|

Standards

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

Cable structure

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

Electrical properties of cable

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

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Mechanical and material properties of cable

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

Plug, left

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

Plug, right

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002599 | ETIM 7.0 | EC002599 |
| ETIM 8.0 | EC002599 | ETIM 9.0 | EC002599 |
| ECLASS 9.0 | 27-06-03-08 | ECLASS 9.1 | 27-06-03-08 |
| ECLASS 10.0 | 27-06-03-08 | ECLASS 11.0 | 27-06-03-08 |
| ECLASS 12.0 | 27-06-03-08 | ECLASS 13.0 | 27-06-03-08 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 67cf1078-beca-4687-860b-dc475a6ec24a |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E316369 |

Downloads

| | |
|--------------------|---|
| Engineering Data | CAD data – STEP |
| User Documentation | MAN IE GUIDE DE MAN IE GUIDE EN |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN PI PROFINET CABLING EN |

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Drawings

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

IE-C5DD4UG0020MCAMCA-E**Weidmüller Interface GmbH & Co. KG**

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

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www.weidmueller.com**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 | Packaging |
|------------|----------------------------|---|-----------|
| Order No. | 1910000000 | Cable gland tool for M8, M12 lines and connectors | Cardboard |
| GTIN (EAN) | 4032248436842 | | box |
| Qty. | 1 pc(s). | | |
| Type | SCREWTY- M12 | Version | Packaging |
| Order No. | 1900000000 | Cable gland tool for moulded M12 lines | Cardboard |
| GTIN (EAN) | 4032248375868 | | box |
| Qty. | 1 pc(s). | | |

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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 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 | SCREWTY-M12-DM | Version | Packaging |
|------------|----------------------------|---|-----------|
| Order No. | 1900001000 | Cable gland tool for moulded M12 lines | Cardboard |
| GTIN (EAN) | 4032248436408 | | box |
| Qty. | 1 pc(s). | | |
| Type | SCREWTY SET -DM | Version | Packaging |
| Order No. | 1920000000 | Cable gland tool for M8, M12 lines and connectors | Cardboard |
| GTIN (EAN) | 4032248436859 | | box |
| Qty. | 1 pc(s). | | |