

IE-C5ED8UG-100

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

www.weidmueller.com



Bulk stock, copper cable, flexible, 4 x 2 x AWG 26/7, Cat. 5, PUR, drag-chain compatible

General ordering data

| | |
|------------|---|
| Version | Dragline cable, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 100 m |
| Order No. | 8813210000 |
| Type | IE-C5ED8UG-100 |
| GTIN (EAN) | 4032248513062 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|----------------|
| Length | 100 m | Length (inches) | 3,937.008 inch |
| Net weight | 5,498 g | | |

Temperatures

| | | | |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...80 °C |
| Installation temperature | -40 °C...80 °C | | |

Technical specifications for cable

| | | | |
|--------------------------------|--|-------------------------------|--------------------------------|
| Acceleration | 5 m/s ² | Bending cycles | 5 Mio |
| Halogen | halogen-free, according to IEC 60754-2 | Number of poles | 8 |
| Resistance to oils | in accordance with IEC 60811-2-1 | Resistance to spread of flame | in accordance with IEC 60332-1 |
| Sheathing colour | green (RAL 6018) | Speed | 180 m/min |
| Test voltage: wire-wire-shield | 700 V _{rms} , 50 Hz, 1 min | Torsion resistance | 30 °/m |

Cable specific standards

| | | | |
|-------------------------------|------------------------------|------------------------------|---------------------------|
| Impervious to smoke | According to IEC 61034-2 | Standard, assembly | UL-Style 20963 (80°C/30V) |
| Standard, insulating material | DIN EN 50290-2-25 (HD 624.5) | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |
| Standard, wire material | DIN EN 13602 Cu-ETP-A | | |

Standards

| | | | |
|-------------------------------|------------------------------|------------------------------|---------------------------|
| Impervious to smoke | According to IEC 61034-2 | Standard, assembly | UL-Style 20963 (80°C/30V) |
| Standard, insulating material | DIN EN 50290-2-25 (HD 624.5) | 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 | Twisted pair | Colour sequence or wires - wire pairs | white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown |
| Complete shielding | Plastic foil, Aluminium foil, Shielding braid made from copper wiring | Cross-section | 4*2*AWG 26/7 - 4*2*0.128 mm ² |
| Filler | As central element, Between the individual wire pairs | Insulation cross-section | 0.95 mm |
| Material sheath | PUR | Overlap of shielding braid | 90 % |
| Sheath diameter, max. | 6.8 mm | Sheath diameter, min. | 6.5 mm |
| Sheathing colour | green (RAL 6018) | Sheathing material thickness | 0.85 mm |
| Shielding | SF/UTP | Shielding braid thickness | 0.1 mm |
| Standard designations | LI9Y(ST)C11Y 4X2X0.14 VZN GN, SF/UTP | Strands | 7 |
| Wire core insulation thickness | 0.23 mm | Wire material | Stranded tin-plated copper wire |

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Electrical properties of cable

| | | | |
|--------------------------------|-------------------------------------|-------------------------------|--|
| Capacity at 800 Hz | 50 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 | 290 Ω/km | Operating voltage (UL rating) | 30 V |
| Operating voltage, UL | 30 V | Resistance differential | 2 % |
| Signal propagation time | 5.55 ns/m | Speed | 180 m/min |
| Test voltage: wire-wire-shield | 700 V _{rms} , 50 Hz, 1 min | Transfer impedance | 100 mΩ/m at 10 MHz |

Mechanical and material properties of cable

| | | | |
|---------------------------------|---|-------------------------------|-----------------------------------|
| Abrasion resistance | very good | Acceleration | 5 m/s ² |
| Bending cycles | 5 Mio | Fire propagation | No |
| Halogen | halogen-free, according to IEC 60754-2 | Impervious to smoke | According to IEC 61034-2 |
| Min. bending radius, repetitive | 60 mm | Pulling force | ≤ 100 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 |
| Torsion resistance | 30 °/m | UV-resistant | Yes |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000830 | ETIM 7.0 | EC003249 |
| ETIM 8.0 | EC003249 | ETIM 9.0 | EC003249 |
| ECLASS 9.0 | 27-06-18-05 | ECLASS 9.1 | 27-06-90-90 |
| ECLASS 10.0 | 27-06-18-01 | ECLASS 11.0 | 27-06-18-01 |
| ECLASS 12.0 | 27-06-18-01 | ECLASS 13.0 | 27-06-18-01 |

Approvals

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

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | PROFINET Manufacturer's Declaration |
| User Documentation | MAN IE GUIDE DE MAN IE GUIDE EN |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN PI PROFINET CABLING EN PI PROFINET CABLING EN |

Data sheet

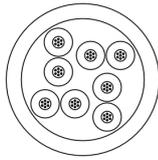
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Drawings

Detailed drawing



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

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Accessories

V0 material



SlimFix are conductor and cable markers with a space-saving design. The markers can be fitted even after the conductor has been installed. They consist of halogen-free material and comply with flammability rating V0/V2. SlimFix is an acknowledged and accredited marker type for traffic engineering applications. The SF tool allows easy installation, even in case of small markers.

Advantages:

- Halogen-free material
- Flammability rating V0/V2
- Approved and accredited markers for traffic engineering applications, etc.
- Has to be fixed with cable ties if the conductor cross-section is larger than 16.0 mm²
- Markers in proven MultiCard format

General ordering data

| Type | VT SF 6/21 MC NE WS V0 | Version |
|------------|----------------------------|--|
| Order No. | 1730560001 | SlimFix, Conductor and cable markers, 5.8 - 7.8 mm, 21 x 8.4 mm, |
| GTIN (EAN) | 4008190954611 | white |
| Qty. | 160 pc(s). | |

| Type | VT SF 5/21 MC NE WS V0 | Version |
|------------|----------------------------|--|
| Order No. | 1689470001 | SlimFix, Conductor and cable markers, 4.8 - 7.4 mm, 21 x 7.4 mm, |
| GTIN (EAN) | 4008190872571 | white |
| Qty. | 160 pc(s). | |

TM HF 18 mm



The TM sleeves contain no halogens and virtually no pollutants. The sleeves are equipped with the TM-I 12 or TM-I 18 tags. They cover a wide range of applications for cables and lines. This system has particularly proved its worth in traffic engineering. The slim design guarantees firm seating on the conductor.

- Halogen-free
- The slim design guarantees firm seating on the conductor
- TMX 18 for mounting with cable-ties (width 3.6 mm)

General ordering data

| Type | TM 4/18 HF/HB | Version |
|------------|----------------------------|---|
| Order No. | 1719850000 | TM, Socket x 11.4 mm, Polyethylene LD, Colour: Transparent, |
| GTIN (EAN) | 4008190353209 | Conductor O.D.: 6 - 10 mm |
| Qty. | 500 pc(s). | |

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TM HF 12 mm



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- Halogen-free
- The slim design guarantees firm seating on the conductor
- TMX 18 for mounting with cable-ties (width 3.6 mm)

General ordering data

| | | |
|------------|----------------------------|---|
| Type | TM 4/12 HF/HB | Version |
| Order No. | 1719840000 | TM, Socket x 11.4 mm, Polyethylene LD, Colour: Transparent, |
| GTIN (EAN) | 4008190353193 | Conductor O.D.: 6 - 10 mm |
| Qty. | 500 pc(s). | |

Tools



The CST with blue blade cartridge produces the best stripping results. The blue double-stage blade cartridge is particularly suited for Ethernet cables. It saves time and also ensures optimal stripping results.

General ordering data

| | | |
|------------|----------------------------|----------------------------|
| Type | IE-CST | Version |
| Order No. | 9204350000 | Tools, Sheathing strippers |
| GTIN (EAN) | 4032248653072 | |
| Qty. | 1 pc(s). | |

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| | | |
|------------|----------------------------|---|
| Type | TM-I 12 MC NE GE | Version |
| Order No. | 1718411687 | TM-I, Insert markers, 12 x 4 mm, yellow |
| GTIN (EAN) | 4008190348984 | |
| Qty. | 320 pc(s). | |

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). | |