

**Industrial Ethernet  
IE-C6EL8UG0100XCSXXX-E**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



Assembled IE cables for EtherNet/IP applications

- with bayonet connector according to IEC 61076-3-106 var. 1, cat. 5, sheathed
- with plug-in connector, type M12 X, cat. 6A, according to IEC 61076-2-109 and RJ45 plug-in connector for 10 GBit/s applications

**General ordering data**

|            |   |
|------------|---|
| Type       | IE-C6EL8UG0100XCSXXX-E  |
| Order No.  | <a href="#">1463650100</a>  |
| Version    | System cable, Open, M12 X-type IP 67 straight male, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), PUR, 10 m |
| GTIN (EAN) | 4050118270907   |
| Qty.       | 1 pc(s).  |

Creation date May 4, 2020 6:17:53 AM CEST

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

**Industrial Ethernet  
IE-C6EL8UG0100XCSXXX-E**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data****Dimensions and weights**

|            |       |                          |            |
|------------|-------|--------------------------|------------|
| Length     | 10 m  | Length (inches)          | 0.394 inch |
| Net weight | 360 g | Insulation cross-section | 0.98 mm    |

**Temperatures**

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 80 °C          | Operating temperature, min. | -40 °C         |
| Storage temperature, max.   | 80 °C          | Storage temperature, min.   | -40 °C         |
| Operating temperature       | -40 °C...80 °C | Storage temperature         | -40 °C...80 °C |
| Installation temperature    | -20 °C...60 °C |                             |                |

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**Cable specific standards**

|                     |                        |                    |                |
|---------------------|------------------------|--------------------|----------------|
| Impervious to smoke | According to IEC 61034 | Standard, assembly | UL Style 20963 |
|---------------------|------------------------|--------------------|----------------|

**Cable structure**

|                           |                                 |                                       |  |
|---------------------------|---------------------------------|---------------------------------------|--|
| Copper diameter           | 0.48 µm                         | Wiring                                | EIA/TIA T568 B   |
| Wire material             | Stranded tin-plated copper wire | Standard designations                 | S/FTP, LIO2YSC11Y<br>4x2x0.15 PIMF FRNC GN                       |
| Strands                   | 7                               | Cross-section                         | 4*2*AWG 26/7 -<br>4*2*0.128 mm <sup>2</sup>                      |
| Insulation                | PE                              | Insulation cross-section              | 0.98 mm  |
| Number of wires           | 8                               | Arrangement of wire cores             | Twisted pair   |
| Wire pair shielding       |                                 | Colour sequence or wires - wire pairs | white - blue, white -<br>orange, white - green,<br>white - brown |
| Shielding                 | Aluminium foil                  | Complete shielding                    | Shielding braid made from<br>copper wiring                       |
| Shielding braid thickness | 0.1 mm                          | Material sheath                       | PUR  |
| Sheath diameter, min.     | 6.1 mm                          | Sheath diameter, max.                 | 6.7 mm   |
| Sheathing colour          | green (RAL 6018)                |                                       |  |

**Electrical properties of cable**

|                          |  |                                |                                     |
|--------------------------|--|--------------------------------|-------------------------------------|
| Category                 | Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010) | Test voltage: wire-wire-shield | 700 V <sub>rms</sub> , 50 Hz, 1 min |
| Characteristic impedance | 100 ± 5 Ω at 100MHz  | Loop resistance                | 290 Ω/km                            |
| Transfer impedance       | 15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz         | Signal propagation time        | 5.2 ns/m                            |
| Speed                    | 10 GBit/s  |                                |                                     |

**Mechanical and material properties of cable**

|                                |  |                                 |                                  |
|--------------------------------|--|---------------------------------|----------------------------------|
| Min. bending radius, once only | 5 x cable diameter                     | Min. bending radius, repetitive | 10 x cable diameter              |
| Speed                          | 10 GBit/s                              | Abrasion resistance             | very good                        |
| Resistance to spread of flame  | in accordance with IEC 60332-1-2       | Resistance to oils              | in accordance with IEC 60811-2-1 |
| Halogen                        | halogen-free, according to IEC 60754-1 | Impervious to smoke             | According to IEC 61034           |

## Data sheet

### Industrial Ethernet IE-C6EL8UG0100XCSXXX-E

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

## Technical data

### plug

|                |      |                 |                                |
|----------------|------|-----------------|--------------------------------|
| Connector left | Open | Connector right | M12 X-type IP 67 straight male |
|----------------|------|-----------------|--------------------------------|

### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0   | EC002599    |
| eClass 9.0  | 27-06-03-08 | eClass 9.1 | 27-06-03-08 |
| eClass 10.0 | 27-06-03-08 |            |             |

### Approvals

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

### Downloads

|                    |   |
|--------------------|---|
| Brochure/Catalogue | <a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| User Documentation | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>          |

**Data sheet**

**Industrial Ethernet  
IE-C6EL8UG0100XCSXXX-E**

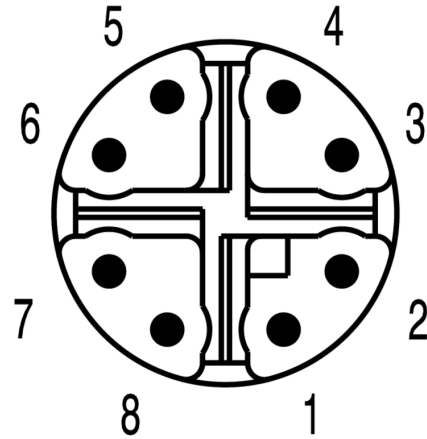
**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Drawings**

**Wiring**

|               |   |     |
|---------------|---|-----|
| White, Orange | 1 | M12 |
| Orange        | 2 |     |
| White, Green  | 3 |     |
| Green         | 4 |     |
| White, Brown  | 5 |     |
| Brown         | 6 |     |
| White, Blue   | 7 |     |
| Blue          | 8 |     |

**Pinning**



**Industrial Ethernet  
IE-C6EL8UG0100XCSXXX-E**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**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 12 MC NE WS           | Version                                |
| Order No.  | <a href="#">1718411044</a> | TM-I, Insert markers, 12 x 4 mm, white |
| GTIN (EAN) | 4008190348977              |  |
| Qty.       | 320 pc(s).                 |  |

**Industrial Ethernet  
IE-C6EL8UG0100XCSXXX-E**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**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 WS           | Version                                |
|------------|----------------------------|--|
| Order No.  | <a href="#">1718431044</a> | TM-I, Insert markers, 18 x 4 mm, white |
| GTIN (EAN) | 4008190349011              |  |
| Qty.       | 320 pc(s).                 |  |