

**Industrial Ethernet  
IE-C6FP8LY0100M40M40-Y**

**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, patch cable Cabinet Line, Cat. 6,  
LSZH, yellow

**General ordering data**

|            |  |
|------------|--|
| Type       | IE-C6FP8LY0100M40M40-Y   |
| Order No.  | <a href="#">1251580100</a>   |
| Version    | Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 <sub>A</sub> /<br>Class E <sub>A</sub> (ISO/IEC 11801 2010), LSZH, 10 m |
| GTIN (EAN) | 4050118042955  |
| Qty.       | 1 pc(s).   |

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

|            |       |                          |            |
|------------|-------|--------------------------|------------|
| Length     | 10 m  | Length (inches)          | 0.394 inch |
| Net weight | 382 g | Insulation cross-section | 1.04 mm    |

**Temperatures**

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 60 °C          | Operating temperature, min. | -20 °C         |
| Storage temperature, max.   | 60 °C          | Storage temperature, min.   | -20 °C         |
| Operating temperature       | -20 °C...60 °C | Storage temperature         | -20 °C...60 °C |
| Installation temperature    | 0 °C...50 °C   |                             |                |

**Environmental Product Compliance**

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

**Electrical properties**

|                                    |                            |                   |              |
|------------------------------------|----------------------------|-------------------|--------------|
| Current-carrying capacity at 50 °C | 1 A                        | Operating voltage | 48 V AC / DC |
| PoE / PoE+                         | conforming to IEEE 802.3at |                   |              |

**Standards**

|   |   |                    |                |
|---|---|--------------------|----------------|
| Application-specific communication cable facilities | ANSI / TIA / EIA-568-B.2-10, ISO / IEC 11801:2002, EN50173-1:2007 | Connector standard | IEC 60603-7-51 |
| Certificate no. (cULus)                             | E316369   |                    |                |

**Cable structure**

|                            |  |                                       |  |
|----------------------------|--|---------------------------------------|--|
| Copper diameter            | 0.43 mm                                | Strands                               | 7  |
| Cross-section              | 4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup> | Insulation                            | PE   |
| Insulation cross-section   | 1.04 mm                                | Number of wires                       | 8  |
| Arrangement of wire cores  | Twisted pair                           | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Shielding                  | S/FTP                                  | Complete shielding                    | Shielding braid made from copper wiring                    |
| Overlap of shielding braid | 60 %                                   | Material sheath                       | LSZH   |
| Sheath diameter, min.      | 5.5 mm                                 | Sheath diameter, max.                 | 5.9 mm   |
| Sheathing colour           | yellow                                 |                                       |  |

**Electrical properties of cable**

|  |  |                                     |                 |
|--|--|-------------------------------------|-----------------|
| Category                                 | Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010) | Operating voltage                   | 48 V AC / DC    |
| Operating voltage (UL rating)            | 30 V AC / 42.4 V DC  | Test voltage: wire-wire-shield      | 750 V DC, 1 min |
| Characteristic impedance                 | 100 ± 15 Ω at 1-100 MHz  | Deviation                           | 25 ns/100m      |
| Resistance differential                  | 5 %  | Capacity at 1 kHz                   | 46 nF/km        |
| Speed                                    | 10 GBit/s  | Coupling resistance at 10 MHz       | 5 mΩ/m          |
| Shield attenuation up to 1000 MHz        | 60 dB  | Coupling attenuation up to 1000 MHz | 80 dB           |
| Separating class according to EN 50174-2 | d  |                                     |                 |

Creation date October 29, 2019 6:15:52 AM CET

Catalogue status 25.10.2019 / We reserve the right to make technical changes.

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**Technical data****Mechanical and material properties of cable**

|                                 |  |                                |  |
|---------------------------------|--|--------------------------------|--|
| Colour                          | yellow                                       | Min. bending radius, once only | 25 mm                                  |
| Min. bending radius, repetitive | 50 mm  | Speed                          | 10 GBit/s                              |
| Resistance to spread of flame   | in accordance with IEC 60332-1 / UL 1581 FT2 | Halogen                        | halogen-free, according to IEC 60754-2 |

**Plug, right**

|                 |             |
|-----------------|-------------|
| Contact surface | Au ≥ 0.8 µm |
|-----------------|-------------|

**plug**

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Connector left | RJ45 IP 20 | Connector right | RJ45 IP 20 |
|----------------|------------|-----------------|------------|

**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**

Approvals



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

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">DUXR.E316369</a>   |
| Brochure/Catalogue                          | <a href="#">CAT 9 IETH 18/19 EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| Engineering Data                            | <a href="#">STEP</a>   |
| Product Change Notification                 | <a href="#">PCN-PB47-20180213-00-A_EN</a><br><a href="#">PCN-PB47-20180213-00-A_DE</a>                             |
| User Documentation                          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>   |

**Data sheet****Industrial Ethernet  
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**Drawings****Wiring**

|      |   |                |   |      |
|------|---|----------------|---|------|
| RJ45 | 1 | white (orange) | 1 | RJ45 |
|      | 2 | orange         | 2 |      |
|      | 3 | white (green)  | 3 |      |
|      | 4 | blue           | 4 |      |
|      | 5 | white (blue)   | 5 |      |
|      | 6 | green          | 6 |      |
|      | 7 | white (brown)  | 7 |      |
|      | 8 | brown          | 8 |      |

**Dimensioned drawing**

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**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).                 |  |

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**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).                 |  |