

**Industrial Ethernet  
IE-C6FP8LD0100M40M40-D**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
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Fon: +49 5231 14-0  
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Assembled IE cables, patch cable Cabinet Line, Cat. 6,  
LSZH, grey

**General ordering data**

|            |  |
|------------|--|
| Type       | IE-C6FP8LD0100M40M40-D   |
| Order No.  | <a href="#">1165940100</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) | 4032248956173  |
| Qty.       | 1 pc(s).   |

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

|            |       |                          |            |
|------------|-------|--------------------------|------------|
| Length     | 10 m  | Length (inches)          | 0.394 inch |
| Net weight | 377 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                                | No. 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   |

**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  |                                     |                 |

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

|                                |  |                                 |  |
|--------------------------------|--|---------------------------------|--|
| 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**

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

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001262    | ETIM 4.0   | EC001262    |
| ETIM 5.0   | EC001262    | ETIM 6.0   | EC002599    |
| eClass 6.2 | 27-06-03-90 | eClass 7.1 | 27-06-03-90 |
| eClass 8.1 | 27-06-03-90 | eClass 9.0 | 27-06-03-90 |
| eClass 9.1 | 27-06-03-08 |            |             |

**Product information**

|                                |                                    |
|--------------------------------|------------------------------------|
| Descriptive text ordering data | Other lengths available on request |
|--------------------------------|------------------------------------|

**Approvals**

Approvals



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

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">DUXR.E316369</a>   |
| Brochure/Catalogue                          | <a href="#">CAT 9 IETH 15/16 EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</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**

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|      |   |                |   |      |
|------|---|----------------|---|------|
| 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 |      |

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