

**Industrial Ethernet  
IE-C6FP8LD0250M40M40-D****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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Assembled IE cables, patch cable Cabinet Line, Cat. 6,  
LSZH, grey

**General ordering data**

|            |                                                                                                                    |
|------------|--------------------------------------------------------------------------------------------------------------------|
| Type       | IE-C6FP8LD0250M40M40-D                                                                                             |
| Order No.  | <a href="#">1165940250</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, 25 m |
| GTIN (EAN) | 4032248956203                                                                                                      |
| Qty.       | 1 pc(s).                                                                                                           |

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## Technische Daten

### Dimensions and weights

|        |      |            |       |
|--------|------|------------|-------|
| Length | 25 m | Net weight | 905 g |
|--------|------|------------|-------|

### Temperatures

|                          |                 |                     |                 |
|--------------------------|-----------------|---------------------|-----------------|
| Operating temperature    | -20 °C...+60 °C | Storage temperature | -20 °C...+60 °C |
| Installation temperature | 0 °C...+50 °C   |                     |                 |

### Downloads

|                                                                                                   |                  |                      |                   |
|---------------------------------------------------------------------------------------------------|------------------|----------------------|-------------------|
| Attestation of conformity ISO/IEC EN & TIA/EIA Screened Class EA Category 6A, 2 connector channel | ac107535.pdf     | Canadian UL approval | DUZX7.E349758.pdf |
| UL Approval                                                                                       | DUZX.E349758.pdf |                      |                   |

### Electrical properties

|                                     |             |                                      |                            |
|-------------------------------------|-------------|--------------------------------------|----------------------------|
| Current-carrying capacity at 50 °C  | 1 A         | Dielectric strength, contact contact | ≥ 1000 V DC                |
| Dielectric strength, contact shield | ≥ 1500 V 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 |
|-----------------------------------------------------|-------------------------------------------------------------------|--------------------|----------------|

### 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 - blue, white/orange - orange, white/green - green, white/brown - 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.6A / Class E <sub>A</sub> (ISO/IEC 11801 2010) | Test voltage: wire-wire-shield, at RMS 50Hz, 1 min. | 750 V      |
| Characteristic impedance | 100 ± 15 Ω at 1–100 MHz                            | Deviation                                           | 25 ns/100m |
| Resistance differential  | 5 %                                                | Capacity at 1 kHz                                   | 46 nF/km   |

### Mechanical and material properties of cable

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

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**Technische Daten****plug**

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| Version connector left | RJ45 IP 20 | Version connector right | RJ45 IP 20 |
|------------------------|------------|-------------------------|------------|

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001262    | eClass 6.2 | 27-06-03-90 |
| eClass 7.1 | 27-06-03-90 |            |             |

**Approvals**

Approvals



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## Zeichnungen

### 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 |      |