

**Industrial Ethernet
IE-C6FP8LD0100M40M40-D**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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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. | 1165940100 |
| Version | Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), LSZH, 10 m |
| GTIN (EAN) | 4032248956173 |
| Qty. | 1 pc(s). |

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

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

Cable specific standards

| | |
|---|---|
| Application-specific communication cable facilities | ANSI / TIA / EIA-568-B.2-10, ISO / IEC 11801:2002, EN50173-1:2007 |
|---|---|

Electrical properties

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

General standards

| | | | |
|-------------------------|---------|--------------------|----------------|
| Certificate no. (cULus) | E316369 | 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 ² | 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 |

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Technical data**Electrical properties of cable**

| | | | |
|--|--|-------------------------------------|-----------------|
| Category | Cat.6 _A / Class E _A (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 | | |

Mechanical and material properties of cable

| | | | |
|---------------------------------|--|--------------------------------|--|
| Colour | grey | 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 | DUXR.E316369 |
| Brochure/Catalogue | CAT 9 IETH 18/19 EN FL FIELDWIRING EN PI PROFINET CABLING EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| Product Change Notification | PCN-PB47-20180213-00-A_EN PCN-PB47-20180213-00-A_DE |
| User Documentation | MAN IE GUIDE DE MAN IE GUIDE EN |

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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