

**Industrial Ethernet
IE-C6FP8LD0005M40M40-D**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Assembled IE cables, patch cable Cabinet Line, Cat. 6,
LSZH, grey

General ordering data

| | |
|------------|---|
| Type | IE-C6FP8LD0005M40M40-D |
| Order No. | 1165940005 |
| Version | Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), LSZH, 0.5 m |
| GTIN (EAN) | 4032248956081 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|--------------------------|---------|--------|-------|
| Insulation cross-section | 1.04 mm | Length | 0.5 m |
| Net weight | 38 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 | UL Approval | DUXR.E316369.pdf |
|---|--------------|-------------|------------------|

Electrical properties

| | | | |
|---------------------------------------|-------------|---|---|
| Current-carrying capacity at 50 °C | 1 A | Dielectric strength, contact / contact PoE / PoE+ | ≥ 1000 V DC conforming to IEEE 802.3at |
| Dielectric strength, contact / shield | ≥ 1500 V DC | | |

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 ² | 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.6 _A / Class E _A (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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Data sheet

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Technical data

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 | 27-06-18-01 | | |

Approvals

Approvals



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

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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 | |
