

## IE-C6FP8LR0050M40M40-R

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)



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

### General ordering data

|            |   |
|------------|---|
| Version    | Patch cable, RJ45 IP 20, RJ45 IP 20, <20 m:<br>Cat.6A / >20 m Class EA (ISO/IEC 11801 2010),<br>LSZH, 5 m |
| Order No.  | <a href="#">1166030050</a>  |
| Type       | IE-C6FP8LR0050M40M40-R  |
| GTIN (EAN) | 4032248956944   |
| Qty.       | 1 items   |

## IE-C6FP8LR0050M40M40-R

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## Technical data

## Approvals

Approvals



ROHS Conform  
 UL File Number Search [UL Website](#)  
 Certificate no. (cULus) E316369

## Dimensions and weights

|            |       |                 |               |
|------------|-------|-----------------|---------------|
| Length     | 5 m   | Length (inches) | 196.8504 inch |
| Net weight | 195 g |                 |               |

## Temperatures

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

## Environmental Product Compliance

RoHS Compliance Status Compliant without exemption  
 REACH SVHC No SVHC above 0.1 wt%

## Electrical properties

|                                    |     |            |                            |
|------------------------------------|-----|------------|----------------------------|
| Current-carrying capacity at 50 °C | 1 A | PoE / PoE+ | conforming to IEEE 802.3at |
|------------------------------------|-----|------------|----------------------------|

## General standards

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

## Standards

|                    |                |
|--------------------|----------------|
| Connector standard | IEC 60603-7-51 |
|--------------------|----------------|

## Cable structure

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

**IE-C6FP8LR0050M40M40-R**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**Technical data**

**Electrical properties of cable**

|  |                     |                                     |   |
|--|---------------------|-------------------------------------|---|
| Transmission rate                        | 10 Gbit/s           | Category                            | <20 m: Cat.6A / >20 m<br>Class EA (ISO/IEC 11801<br>2010) |
| Operating voltage                        | 50 V DC             | Coupling attenuation up to 1000 MHz | 80 dB   |
| Separating class according to EN 50174-2 | d                   | Capacity at 1 kHz                   | 46 nF/km  |
| Coupling resistance at 10 MHz / m        | 5.00 mΩ             | Test voltage: wire-wire-shield      | 2.5 kV / DC for 2 sec                                     |
| Resistance differential                  | 5 %                 | Delay skew                          | 2.5 ns/100m   |
| Operating voltage (UL rating)            | 30 V AC / 42.4 V DC | Characteristic impedance            | 100 ± 15 Ω at 1-100<br>MHz                                |

**Mechanical and material properties of cable**

|                                |                    |                               |   |
|--------------------------------|--------------------|-------------------------------|---|
| Colour                         | red                | Halogen                       | halogen-free, according to<br>IEC 60754-2   |
| Min. bending radius, once only | 4 x cable diameter | Resistance to spread of flame | in accordance with IEC<br>60332-2-2, in accordance<br>with IEC 60332-1-2,<br>in accordance with<br>IEC 60332-3-24, in<br>accordance with UL 2556<br>(FT1) |

**Plug**

|            |   |           |   |
|------------|---|-----------|---|
| Plug right | RJ45, IP20, male contact,<br>straight, plug, Plastic,<br>shielded | Plug left | RJ45, IP20, male contact,<br>straight, plug, Plastic,<br>shielded |
|------------|---|-----------|---|

**Plug, left**

|           |   |
|-----------|---|
| Plug left | RJ45, IP20, male contact,<br>straight, plug, Plastic,<br>shielded |
|-----------|---|

**Plug, right**

|            |   |
|------------|---|
| Plug right | RJ45, IP20, male contact,<br>straight, plug, Plastic,<br>shielded |
|------------|---|

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | EC002599    | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

## IE-C6FP8LR0050M40M40-R

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

# 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

