

**IE-C6FP8LG0010M40M40-G****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, green

**General ordering data**

|            |                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------|
| 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, 1 m |
| Order No.  | <a href="#">1251590010</a>                                                                                        |
| Type       | IE-C6FP8LG0010M40M40-G                                                                                            |
| GTIN (EAN) | 4050118043280                                                                                                     |
| Qty.       | 1 pc(s).                                                                                                          |

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Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |      |                 |            |
|------------|------|-----------------|------------|
| Length     | 1 m  | Length (inches) | 39.37 inch |
| Net weight | 52 g |                 |            |

## Temperatures

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

## 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 | PoE / PoE+ | conforming to IEEE 802.3at |
|------------------------------------|-----|------------|----------------------------|

## General standards

|                         |         |                    |                |
|-------------------------|---------|--------------------|----------------|
| Certificate no. (cULus) | E316369 | Connector standard | IEC 60603-7-51 |
|-------------------------|---------|--------------------|----------------|

## 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

|                           |                                         |                                       |                                                            |
|---------------------------|-----------------------------------------|---------------------------------------|------------------------------------------------------------|
| Arrangement of wire cores | Twisted pair                            | Colour sequence or wires - wire pairs | white - blue, white - orange, white - green, white - brown |
| Complete shielding        | Shielding braid made from copper wiring | Copper diameter                       | 0.43 mm                                                    |
| Cross-section             | 4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>  | Insulation                            | PE                                                         |
| Insulation cross-section  | 1.04 mm                                 | Material sheath                       | LSZH                                                       |
| Number of wires           | 8                                       | Overlap of shielding braid            | 60 %                                                       |
| Sheath diameter, max.     | 5.9 mm                                  | Sheath diameter, min.                 | 5.5 mm                                                     |
| Shielding                 | S/FTP                                   | Strands                               | 7                                                          |

## Electrical properties of cable

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Capacity at 1 kHz                   | 46 nF/km                                           |
| Category                            | Cat.6A / Class E <sub>A</sub> (ISO/IEC 11801 2010) |
| Characteristic impedance            | 100 ± 15 Ω at 1–100 MHz                            |
| Coupling attenuation up to 1000 MHz | 80 dB                                              |
| Coupling resistance at 10 MHz       | 5 mΩ/m                                             |
| Deviation                           | 25 ns/100m                                         |
| Operating voltage                   | 50 V DC                                            |

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## Technical data

|                                          |                     |        |
|------------------------------------------|---------------------|--------|
| Operating voltage (UL rating)            | Voltage type        | AC     |
|                                          | Operating voltage   | 30 V   |
|                                          | Voltage type        | DC     |
|                                          | Operating voltage   | 42.4 V |
| Operating voltage (UL rating)            | 30 V AC / 42.4 V DC |        |
| Operating voltage, UL                    | 30 V AC / 42.4 V DC |        |
| Resistance differential                  | 5 %                 |        |
| Separating class according to EN 50174-2 | d                   |        |
| Speed                                    | 10 GBit/s           |        |
| Test voltage: wire-wire-shield           | 750 V DC, 1 min     |        |

## Mechanical and material properties of cable

|                                |                                                                                                                                         |                                 |                                        |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|
| Colour                         | green                                                                                                                                   | Halogen                         | halogen-free, according to IEC 60754-2 |
| Min. bending radius, once only | 25 mm                                                                                                                                   | Min. bending radius, repetitive | 50 mm                                  |
| Resistance to spread of flame  | in accordance with IEC 60332-2-2, in accordance with IEC 60332-1-2, in accordance with IEC 60332-3-24, in accordance with UL 2556 (FT1) |                                 | 10 GBit/s                              |

## Plug, left

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

## Plug, right

|                       |             |                 |                       |
|-----------------------|-------------|-----------------|-----------------------|
| Connector right       | RJ45 IP 20  | Contact surface | Au $\geq$ 0.8 $\mu$ m |
| Housing main material | PC UL 94 V0 | Plugging cycles | 750                   |

## 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 | ECLASS 11.0 | 27-06-03-08 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E316369 |

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|                                             |                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">ISO/IEC EN and TIA/EIA Screened Class EA Category 6A, 2 connector channel DUXR.E316369</a> |
| Engineering Data                            | <a href="#">STEP</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>                                     |

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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

