

**IE-C6FP8LG0015M40M40-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, <20 m:<br>Cat.6A / >20 m Class EA (ISO/IEC 11801 2010),<br>LSZH, 1.5 m |
| Order No.  | <a href="#">1251590015</a>                                                                                  |
| Type       | IE-C6FP8LG0015M40M40-G                                                                                      |
| GTIN (EAN) | 4050118043273                                                                                               |
| Qty.       | 1 pc(s).                                                                                                    |

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**Technical data****Dimensions and weights**

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 1.5 m | Length (inches) | 59.055 inch |
| Net weight | 72 g  |                 |             |

**Temperatures**

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

**Electrical properties**

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

**General standards**

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

**Standards**

|                    |                |
|--------------------|----------------|
| 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 | 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                                  | Sheathing colour                      | green                                                      |
| Shielding                  | S/FTP                                   | Strands                               | 7                                                          |
| Wire pair shielding        | Aluminium foil                          |                                       |                                                            |

**Electrical properties of cable**

|                                   |                         |                                          |                                                     |
|-----------------------------------|-------------------------|------------------------------------------|-----------------------------------------------------|
| Capacity at 1 kHz                 | 46 nF/km                | Category                                 | <20 m: Cat.6A / >20 m Class EA (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 / m | 5 mΩ                    | Delay skew                               | 2.5 ns/100m                                         |
| Operating voltage                 | 50 V DC                 | Operating voltage (UL rating)            | 30 V AC / 42.4 V DC                                 |
| Resistance differential           | 5 %                     | Separating class according to EN 50174-2 | d                                                   |
| Test voltage: wire-wire-shield    | 2.5 kV / DC for 2 sec   | Transmission rate                        | 10 Gbit/s                                           |

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## Technical data

## Mechanical and material properties of cable

|                                |                    |                               |                                                                                                                                         |
|--------------------------------|--------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Colour                         | green              | Halogen                       | halogen-free, according to IEC 60754-2                                                                                                  |
| Min. bending radius, once only |                    | 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) |
|                                | 4 x cable diameter |                               |                                                                                                                                         |

## Plug

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

## Plug, left

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

## Plug, right

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | 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 | ECLASS 12.0 | 27-06-03-08 |
| ECLASS 13.0 | 27-06-03-08 | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

## Environmental Product Compliance

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

## Approvals

Approvals



|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319218/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319218/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E316369    |

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Catalogue status 10.05.2025 / We reserve the right to make technical changes.

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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><br><a href="#">Control - CC-Link Patchcord Certificate</a><br><a href="#">Field - CC-Link Patchcord Certificate</a><br><a href="#">TSN - CC-Link Patchcord Certificate</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                   |
| Product Change Notification                 | <a href="#">PCN-PB47-20180213-00-A_EN</a><br><a href="#">PCN-PB47-20180213-00-A_DE</a><br><a href="#">Technische Änderung zu der Cabinet Line (RJ45 CAT.6A Patchkabel LSZH)</a><br><a href="#">Technical change to RJ45 CabinetLine (RJ45 CAT.6A Patchcable LSZH)</a>             |
| User Documentation                          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>                                                                                                                                                                                                                |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                          |
| Brochures                                   | <a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a><br><a href="#">PI PROFINET CABLING EN</a>                                                                                                                                                             |

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|      |   |                |   |      |
|------|---|----------------|---|------|
| 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**