

## IE-C6FP8LD0250M40M40-D

**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, grey

### General ordering data

Version	Patch cable, RJ45 IP 20, RJ45 IP 20, <20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010), LSZH, 25 m
Order No.	<a href="#">1165940250</a>
Type	IE-C6FP8LD0250M40M40-D
GTIN (EAN)	4032248956203
Qty.	1 pc(s).

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Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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

Length	25 m	Length (inches)	984.252 inch
Net weight	905 g		

**Temperatures**

Storage temperature	-20 °C...60 °C	Operating temperature	-20 °C...60 °C
Operating temperature, min.	-20 °C	Operating temperature, max.	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
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**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 60603-7-5 1		

**Standards**

Connector standard	IEC 60603-7-5 1
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**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	grey
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	5 mΩ/m	
Deviation	2.5 ns/100m	
Operating voltage	50 V DC	
Operating voltage (UL rating)	Operating voltage	30 V
	Voltage type	AC
	Operating voltage	42.4 V
	Voltage type	DC
Operating voltage (UL rating)	30 V AC / 42.4 V DC	
Operating voltage, UL	30 V AC / 42.4 V DC	
Resistance differential	5 %	

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**Technical data**

Separating class according to EN 50174-2	d
Speed	10 GBit/s
Test voltage: wire-wire-shield	2.5 kV / DC for 2 sec

**Mechanical and material properties of cable**

Colour	grey	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)
	5 x cable diameter		
Speed	10 GBit/s		

**Plug**

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

Connector left	RJ45 IP 20
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**Plug, right**

Connector right	RJ45 IP 20	Contact surface	Au ≥ 0.8 µm
Housing main material	PC UL 94 V0	Plugging cycles	750

**Classifications**

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	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

**Approvals**

Approvals



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

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## Technical data

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">ISO/IEC EN and TIA/EIA Screened Class EA Category 6A, 2 connector channel DUXR.E316369</a> <a href="#">Control - CC-Link Patchcord Certificate</a> <a href="#">Field - CC-Link Patchcord Certificate</a> <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> <a href="#">PCN-PB47-20180213-00-A_DE</a>
User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a> <a href="#">PI PROFINET CABLING EN</a>

**Data sheet****IE-C6FP8LD0250M40M40-D**

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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**