

**Industrial Ethernet  
IE-C6FP8LD0005M40M40-D**

**Weidmüller Interface GmbH & Co. KG**  
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Fon: +49 5231 14-0  
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Assembled IE cables, patch cable Cabinet Line, Cat. 6,  
LSZH, grey

**General ordering data**

Type	IE-C6FP8LD0005M40M40-D
Order No.	<a href="#">1165940005</a>
Version	Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), LSZH, 0.5 m
GTIN (EAN)	4032248956081
Qty.	1 pc(s).

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

Length	0.5 m	Length (inches)	0.02 inch
Net weight	38 g	Insulation cross-section	1.04 mm

**Temperatures**

Operating temperature, max.	60 °C	Operating temperature, min.	-20 °C
Storage temperature, max.	60 °C	Storage temperature, min.	-20 °C
Operating temperature	-20 °C...60 °C	Storage temperature	-20 °C...60 °C
Installation temperature	0 °C...50 °C		

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Electrical properties**

Current-carrying capacity at 50 °C	1 A	Operating voltage	48 V AC / DC
PoE / PoE+	conforming to IEEE 802.3at		

**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 <sup>2</sup>	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, white - orange, white - green, white - 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 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010)	Operating voltage	48 V AC / DC
Operating voltage (UL rating)	30 V AC / 42.4 V DC	Test voltage: wire-wire-shield	750 V DC, 1 min
Characteristic impedance	100 ± 15 Ω at 1-100 MHz	Deviation	25 ns/100m
Resistance differential	5 %	Capacity at 1 kHz	46 nF/km
Speed	10 GBit/s	Coupling resistance at 10 MHz	5 mΩ/m
Shield attenuation up to 1000 MHz	60 dB	Coupling attenuation up to 1000 MHz	80 dB
Separating class according to EN 50174-2	d		

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**Technical data****Mechanical and material properties of cable**

Min. bending radius, once only	25 mm	Min. bending radius, repetitive	50 mm
Speed	10 GBit/s	Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Halogen	halogen-free, according to IEC 60754-2		

**plug**

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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**Classifications**

ETIM 3.0	EC001262	ETIM 4.0	EC001262
ETIM 5.0	EC001262	ETIM 6.0	EC002599
eClass 6.2	27-06-03-90	eClass 7.1	27-06-18-01
eClass 8.1	27-06-18-01	eClass 9.0	27-06-18-01
eClass 9.1	27-06-03-08		

**Product information**

Descriptive text ordering data	Other lengths available on request
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**Approvals**

Approvals



ROHS	Conform
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**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">DUXR.E316369</a>
Brochure/Catalogue	<a href="#">CAT 9 IETH 15/16 EN</a> <a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</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>

**Data sheet****Industrial Ethernet  
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**Drawings****Wiring**

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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	

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