

**Industrial Ethernet
IE-C6FP8LD0020M40M40-D**

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

General ordering data

Type	IE-C6FP8LD0020M40M40-D
Order No.	1165940020
Version	Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), LSZH, 2 m
GTIN (EAN)	4032248956111
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	2 m	Length (inches)	0.079 inch
Net weight	89 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 ²	Insulation	PE
Insulation cross-section	1.04 mm	Number 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 _A / Class E _A (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		

Data sheet

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Mechanical and material properties of cable

Colour	grey	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, right

Contact surface	Au ≥ 0.8 µm
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plug

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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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		

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	DUXR.E316369
Brochure/Catalogue	CAT 9 IETH 18/19 EN FL FIELDWIRING EN PI PROFINET CABLING EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP
Product Change Notification	PCN-PB47-20180213-00-A_EN PCN-PB47-20180213-00-A_DE
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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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