

IE-C6FP8LD0020M40V40-D**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Assembled IE cables, patch cable Cabinet Line, Cat. 6,
LSZH, grey, 90° angled on one side

General ordering data

Version	Patch cable, RJ45 IP 20, RJ45 IP 20, Angled 90°, <20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010), LSZH, 2 m
Order No.	1248280020
Type	IE-C6FP8LD0020M40V40-D
GTIN (EAN)	4050118044805
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	2 m	Length (inches)	78.74 inch
Net weight	90 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
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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 60603-7-51		

Standards

Connector standard	IEC 60603-7-51
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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 ²
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 / 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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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)
	4 x cable diameter		

Plug

Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded	Plug right	RJ45, IP20, male contact, angled 90°, plug, Plastic, shielded
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Plug, left

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

Plug right	RJ45, IP20, male contact, angled 90°, plug, Plastic, shielded
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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	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319218/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/
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ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E316369

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Approval/Certificate/Document of Conformity	ISO/IEC EN and TIA/EIA Screened Class EA Category 6A, 2 connector channel DUXR.E316369 Control - CC-Link Patchcord Certificate Field - CC-Link Patchcord Certificate TSN - CC-Link Patchcord Certificate
Engineering Data	CAD data – STEP
Product Change Notification	PCN-PB47-20180213-00-A_EN PCN-PB47-20180213-00-A_DE Technische Änderung zu der Cabinet Line (RJ45 CAT.6A Patchkabel LSZH) Technical change to RJ45 CabinetLine (RJ45 CAT.6A Patchcable LSZH)
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN PI PROFINET CABLING EN PI PROFINET CABLING 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



Dimensioned drawing

