

IE-C6FP8LB0100M40M40-B

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



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

General ordering data

Version	Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), LSZH, 10 m
Order No.	1165900100
Type	IE-C6FP8LB0100M40M40-B
GTIN (EAN)	4032248956050
Qty.	1 pc(s).

Creation date 07 February 2022 03:27:43 CET

Catalogue status 03.02.2022 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Length	10 m	Length (inches)	393.701 inch
Net weight	362 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	Connector standard	IEC 60603-7-51
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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	Copper diameter	0.43 mm
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	blue	Shielding	S/FTP
Strands	7	Wire pair shielding	Aluminium foil

Electrical properties of cable

Capacity at 1 kHz	46 nF/km	
Category	Cat.6 _A / Class E _A (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	25 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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Separating class according to EN 50174-2	d
Speed	10 GBit/s
Test voltage: wire-wire-shield	750 V DC, 1 min

Mechanical and material properties of cable

Colour	blue	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, left

Connector left	RJ45 IP 20
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Plug, right

Connector right	RJ45 IP 20	Contact surface	Au \geq 0.8 μ m
Housing main material	PC UL 94 V0	Plugging cycles	750

plug

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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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		

Approvals

Approvals



ROHS	Conform
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www.weidmueller.com**Technical data****Downloads**Approval/Certificate/Document of
Conformity[DUXR.E316369](#)

Engineering Data

[CAD data – STEP](#)

Product Change Notification

[PCN-PB47-20180213-00-A_EN](#)[PCN-PB47-20180213-00-A_DE](#)[20210804 Technical change to CabinetLine \(RJ45 CAT.6A patch cable LSZH\)](#)[20210804 Technische Änderung zur der CabinetLine \(RJ45 CAT.6A Patchkabel LSZH\).](#)

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](#)

Data sheet**IE-C6FP8LB0100M40M40-B**

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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