

## IE-C6FP8LB0020M40M40-B

**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, blue

### General ordering data

Version	Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), LSZH, 2 m
Order No.	<a href="#">1165900020</a>
Type	IE-C6FP8LB0020M40M40-B
GTIN (EAN)	4032248956029
Qty.	1 pc(s).

Creation date 07 February 2022 03:25:15 CET

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

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## Technical data

## Dimensions and weights

Length	2 m	Length (inches)	78.74 inch
Net weight	84 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 <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	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 <sub>A</sub> / Class E <sub>A</sub> (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)	Voltage type	AC
	Operating voltage	30 V
	Voltage type	DC
	Operating voltage	42.4 V
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	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 $\mu$ 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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Approval/Certificate/Document of Conformity	<a href="#">DUXR.E316369</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> <a href="#">20210804 Technical change to CabinetLine (RJ45 CAT.6A patch cable LSZH)</a> <a href="#">20210804 Technische Änderung zur der CabinetLine (RJ45 CAT.6A Patchkabel LSZH)</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-C6FP8LB0020M40M40-B****Weidmüller Interface GmbH & Co. KG**  
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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	

**Dimensioned drawing**