

**IE-C6FP8LD0500M40M40-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

**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, 50 m
Order No.	<a href="#">1165940500</a>
Type	IE-C6FP8LD0500M40M40-D
GTIN (EAN)	4032248956340
Qty.	1 pc(s).

Creation date January 21, 2022 3:34:43 PM CET

Catalogue status 14.01.2022 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

Length	50 m	Length (inches)	1,968.504 inch
Net weight	1,755 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	grey	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)	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	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)
	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="#">ISO/IEC EN and TIA/EIA Screened Class EA Category 6A, 2 connector channel 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>

**Data sheet**

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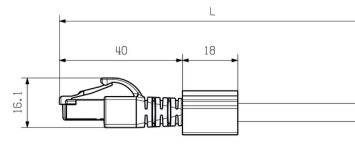
[www.weidmueller.com](http://www.weidmueller.com)

**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**



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**Accessories**

**Blank**



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the PrintJet CONNECT, plotter or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

**General ordering data**

Type	TM-I 12 MC NE WS	Version
Order No.	<a href="#">1718411044</a>	TM-I, Insert markers, 12 x 4 mm, white
GTIN (EAN)	4008190348977	
Qty.	320 pc(s).	

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### General ordering data

Type	TM-I 18 MC NE WS	Version
Order No.	<a href="#">1718431044</a>	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	

# Mouser Electronics

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