

IE-C6FP8LY0500M40M40-Y**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

General ordering data

Version	Patch cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), LSZH, 50 m
Order No.	1251580500
Type	IE-C6FP8LY0500M40M40-Y
GTIN (EAN)	4050118394757
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	50 m	Length (inches)	1,968.504 inch
Net weight	1,500 g		

Temperatures

Storage temperature	-20 °C...60 °C	Operating temperature	-20 °C...60 °C
Installation temperature	0 °C...50 °C		

Cable specific standards

Application-specific communication cable facilities	ANSI / TIA / EIA-568-B.2-10, ISO / IEC 11801:2002, EN50173-1:2007
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Electrical properties

Current-carrying capacity at 50 °C	1 A	PoE / PoE+	conforming to IEEE 802.3at
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General standards

Certificate no. (cULus)	E316369	Connector standard	IEC 60603-7-51
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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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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	yellow	Shielding	S/FTP
Strands	7		

Electrical properties of cable

Capacity at 1 kHz	46 nF/km
Category	Cat.6A / 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

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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 %	
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	yellow	Halogen	halogen-free, according to IEC 60754-2
Min. bending radius, once only	25 mm	Min. bending radius, repetitive	50 mm
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)		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
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
UL File Number Search	E316369

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[DUXR.E316369](#)

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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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