Data sheet

IE-C6FP8LY0005M40M40-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, <20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010), LSZH, 0.5 m
Order No.	1251580005
Type	IE-C6FP8LY0005M40M40-Y
GTIN (EAN)	4050118042931
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E316369

Dimensions and weights

Length	0.5 m	Length (inches)	19.685 inch
Net weight	29 g		

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Electrical properties

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

General standards

Connector standard	IEC 60603-7-51	Application-specific communication cable facilities	ANSI / TIA / EIA-568-B.2-10, ISO / IEC 11801:2002, EN50173-1:2007
Certificate no. (cULus)	E316369		

Standards

Connector standard	IEC 60603-7-51

Cable structure

Strands	7	Sheathing colour	yellow
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm²	Shielding	S/FTP
Number of wires	8	Insulation cross-section	1.04 mm
Insulation	PE	Sheath diameter, max.	5.9 mm
Sheath diameter, min.	5.5 mm	Material sheath	LSZH
Wire pair shielding	Aluminium foil	Arrangement of wire cores	Twisted pair
Complete shielding	Shielding braid made from copper wiring	Overlap of shielding braid	60 %
Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown		

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Electrical properties of cable

Transmission rate	10 Gbit/s	Category	<20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010)
Operating voltage	50 V DC	Coupling attenuation up to 1000 MHz	80 dB
Separating class according to EN 50174-2	d	Capacity at 1 kHz	46 nF/km
Coupling resistance at 10 MHz / m	5.00 mΩ	Test voltage: wire-wire-shield	2.5 kV / DC for 2 sec
Resistance differential	5 %	Delay skew	2.5 ns/100m
Operating voltage (UL rating)	30 V AC / 42.4 V DC	Characteristic impedance	100 ± 15 Ω at 1–100 MHz

Mechanical and material properties of cable

Colour	yellow	Halogen	halogen-free, according to IEC 60754-2
Min. bending radius, once only	4 x cable diameter	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)

Plug

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

Plug, left

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

Plug, right

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

Classifications

ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	EC002599	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		

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Drawings

Wiring

Dimensioned drawing