IE-C6EL8UG0050XCAU40-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany

www.weidmueller.com



Assembled IE cables for EtherNet/IP applications with plug-in connector, type M12 X, cat. 6A, according to IEC 61076-2-109 and RJ45 plug-in connector for 10 GBit/s applications

General ordering data

Version	System cable, RJ45 IP 20, M12 x-type IP67 male, angled 0°, Cat.6_A / Class E_A (ISO/IEC 11801 2010), PUR, 5 m
Order No.	2485600050
Type	IE-C6EL8UG0050XCAU40-E
GTIN (EAN)	4050118496345
Qty.	1 pc(s).

Creation date September 17, 2022 11:08:05 PM CEST

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Technical data

Dimensions and weights

Length	5 m	Length (inches)	196.85 inch
Net weight	257 g		

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...80 °C
Installation temperature	-20 °C...60 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	67cf1078-beca-4687-860b-dc475a6ec24a

Cable specific standards

Impervious to smoke	According to IEC 61034	Standard, assembly	UL Style 20963

Standards

Impervious to smoke	According to IEC 61034	Standard, assembly	UL Style 20963

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	0.48 µm
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm²	Insulation	PE
Insulation cross-section	0.98	Material sheath	PUR
Number of wires	8	Sheath diameter, max.	6.7 mm
Sheath diameter, min.	6.1 mm	Sheathing colour	green (RAL 6018)
Shielding	S/FTP	Shielding braid thickness	0.1 mm
Standard designations	S/FTP, LIO2YSC11Y 4x2x0.15 PIMF FRNC GN	Strands	7
Wire material	Stranded tin-plated copper wire	Wire pair shielding	Aluminium foil
Wiring	EIA/TIA T568 B		

Electrical properties of cable

Category	Cat.6_A / Class E_A (ISO/IEC 11801 2010)	Characteristic impedance	100 ± 5 Ω at 100MHz
Loop resistance	290 Ω/km	Signal propagation time	5.2 ns/m
Speed	10 GBit/s	Test voltage: wire-wire-shield	700 V_{rms}, 50 Hz, 1 min
Transfer impedance	15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz		

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Mechanical and material properties of cable

Abrasion resistance	very good	Halogen	halogen-free, according to IEC 60754-1
Impervious to smoke	According to IEC 61034	Min. bending radius, once only	5 x cable diameter
Min. bending radius, repetitive	10 x cable diameter	Resistance to oils	in accordance with IEC 60811-2-1
Resistance to spread of flame	in accordance with IEC 60332-1-2	Speed	10 GBit/s

Plug

Plug left	M12, X, IP67, male contact, angled 0°, plug, Plastic, shielded	Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded

Plug, left

Connector left	RJ45 IP 20

Plug, right

Connector right	M12 x-type IP67 male, angled 0°

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	ECLASS 12.0	27-06-03-08

Approvals

ROHS	Conform

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

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Drawings

Wiring



Pinning

