

IE-C6EL8UG0120U40XCS-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
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 IP 67 straight male, Cat.6A / Class EA (ISO/IEC 11801 2010), PUR, 12 m
Order No.	1457580120
Type	IE-C6EL8UG0120U40XCS-E
GTIN (EAN)	4050118264159
Qty.	1 items

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Length	12 m	Length (inches)	472.4409 inch
Net weight	566 g		

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	67cf1078-beca-4687-860b-dc475a6ec24a

Cable specific standards

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

Connector standard	IEC 60603-7-5 1, IEC 61076-2-109
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Standards

Connector standard	IEC 60603-7-5 1, IEC 61076-2-109	Standard, assembly	UL Style 20963
Impervious to smoke	According to IEC 61034		

Cable structure

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

Electrical properties of cable

Transmission rate	10 Gbit/s	Category	Cat.6A / Class EA (ISO/ IEC 11801 2010)
Loop resistance	290 Ω/km	Signal propagation time	5.2 ns/m

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Test voltage: wire-wire-shield	700 Vrms, 50 Hz, 1 min	Transfer impedance	15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz
Characteristic impedance	100 ± 5 Ω at 100MHz		

Mechanical and material properties of cable

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

Plug, left

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

Plug right	M12, X-coded, IP67, male contact, straight, plug, Plastic, shielded
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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

RJ45	1	White, Orange	1	M12
	2	Orange	2	
	3	White, Green	3	
	4	Blue	8	
	5	White, Blue	7	
	6	Green	4	
	7	White, Brown	5	
	8	Brown	6	

Pinning

