

**Industrial Ethernet
IE-C6EL8UG0020U40XCS-E**

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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

Type	IE-C6EL8UG0020U40XCS-E
Order No.	1457580020
Version	System cable, RJ45 IP 20, M12 X-type IP 67 straight male, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), PUR, 2 m
GTIN (EAN)	4050118264074
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	2 m	Length (inches)	0.079 inch
Net weight	120 g	Insulation cross-section	0.98 mm

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Standards

Impervious to smoke	gemäß IEC 61034	Connector standard	IEC 60603-7-51, IEC 61076-2-109
Standard, assembly	UL Style 20963		

Cable structure

Copper diameter	0.48 µm	Wiring	EIA/TIA T568 B
Wire material	Stranded tin-plated copper wire	Standard designations	S/FTP, LIO2YSC11Y 4x2x0.15 PIMF FRNC GN
Strands	7	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm ²
Insulation	PE	Insulation cross-section	0.98 mm
No. of wires	8	Arrangement of wire cores	Twisted pair
Wire pair shielding		Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
Shielding	Aluminium foil	Complete shielding	Shielding braid made from copper wiring
Shielding braid thickness	0.1 mm	Material sheath	PUR
Sheath diameter, min.	6.1 mm	Sheath diameter, max.	6.7 mm
Sheathing colour	green (RAL 6018)		

Electrical properties of cable

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

Mechanical and material properties of cable

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

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Data sheet

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Technical data

plug

Connector left	RJ45 IP 20	Connector right	M12 X-type IP 67 straight male
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Classifications

ETIM 5.0	EC000748	ETIM 6.0	EC002599
eClass 6.2	27-06-03-90	eClass 7.1	27-06-03-90
eClass 8.1	27-06-03-90	eClass 9.0	27-06-03-08
eClass 9.1	27-06-03-08		

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	CAT 9 IETH 15/16 EN FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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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

