

**Industrial Ethernet
IE-C6EL8UG0030XCAXXX-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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Assembled IE cables for EtherNet/IP applications

- with bayonet connector according to IEC 61076-3-106 var. 1, cat. 5, sheathed
- 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-C6EL8UG0030XCAXXX-E
Order No.	2455130030
Version	System cable, Open, M12 X-type IP67 male, angled, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), PUR, 3 m
GTIN (EAN)	4050118497601
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	3 m	Length (inches)	0.118 inch
Net weight	150 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	Standard, assembly	UL Style 20963
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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
	S/FTP	Material sheath	PUR
Shielding braid thickness	0.1 mm	Sheath diameter, max.	6.7 mm
Sheath diameter, min.	6.1 mm		
Sheathing colour	green (RAL 6018)		

Electrical properties of cable

Category	Cat.6A / 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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Technical data**plug**

Connector left	Open	Connector right	M12 X-type IP67 male, angled
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Classifications

ETIM 6.0	EC002599	eClass 6.2	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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Drawings

Wiring

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

Pinning

