Industrial Ethernet
IE-C6EL8UG0030XCSXCA-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

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-C6EL8UG0030XCSXCA-E
Order No.	2485580030
Version	System cable, M12 X-type IP 67 straight male, M12 X-type IP67 male, angled, Cat.6$_A$ / Class E$_A$ (ISO/IEC 11801 2010), PUR, 3 m
GTIN (EAN)	4050118496161
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

Cable specific standards

Impervious to smoke	According to IEC 61034	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 mm²
Insulation	PE	Insulation cross-section	0.98 mm
Number of wires	8	Arrangement of wire cores	Twisted pair
Wire pair shielding	Aluminium foil	Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
Shielding	S/FTP	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	According to IEC 61034

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plug

Connector left	M12 X-type IP 67 straight male	Connector right	M12 X-type IP67 male, angled

Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
eClass 9.0	27-06-03-08	eClass 9.1	27-06-03-08
eClass 10.0	27-06-03-08		

Approvals

ROHS	Conform

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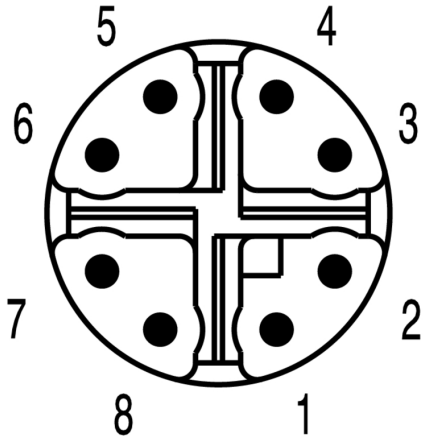
Drawings

Wiring

Pinning



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Accessories

Blank

TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are five different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the SMark laser printer, PrintJet ADVANCED, plotter, MC-Mobilo or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	TM-I 18 MC NE WS	Version
Order No.	1718431044	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	

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General ordering data

Type	TM-I 12 MC NE WS	Version
Order No.	1718411044	TM-I, Insert markers, 12 x 4 mm, white
GTIN (EAN)	4008190348977	
Qty.	320 pc(s).	