Data sheet

IE-C6EL8UG0050XCAU40-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 IP67 male, angled 0°, Cat.6A / Class EA (ISO/IEC 11801 2010), PUR, 5 m
Order No.	2485600050
Type	IE-C6EL8UG0050XCAU40-E
GTIN (EAN)	4050118496345
Qty.	1 items

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Technical data

Approvals

ROHS	Conform

Dimensions and weights

Length	5 m	Length (inches)	196.8504 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

RoHS Compliance Status	Compliant
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

Standards

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 mm²
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
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		

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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	M12, X-coded, IP67, male contact, angled 0°, plug, Plastic, shielded

Plug, right

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

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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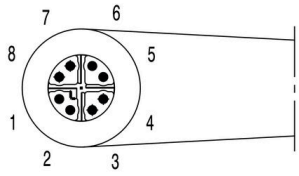
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Drawings

Wiring



Pinning



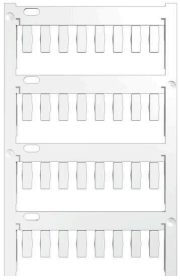
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Accessories

Blank



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various 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 PrintJet CONNECT, plotter 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 12 MC NE WS	Version
Order No.	1718411044	TM-I, Insert markers, 12 x 4 mm, white
GTIN (EAN)	4008190348977	
Qty.	320 ST	
Type	TM-I 18 MC NE WS	Version
Order No.	1718431044	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 ST	