

IE-C6EL8UG0005U40XCS-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, 0.5 m
Order No.	1457580005
Type	IE-C6EL8UG0005U40XCS-E
GTIN (EAN)	4050118628678
Qty.	1 Stück

Erstellungs-Datum May 24, 2023 3:43:00 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Technische Daten

Dimensions and weights

Length	0.5 m	Length (inches)	19.685 inch
Net weight	44 g		

Temperatures

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

Cable specific standards

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

Impervious to smoke	According to IEC 61034	Standard, assembly	UL Style 20963
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Cable structure

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

Electrical properties of cable

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

Mechanical and material properties of cable

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

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Plug

Plug	Cable side	left
	Version of contact face	RJ45
	Protection degree (IP)	IP20
	Gender of contact	male contact
	Outlet direction	straight
	Version of connector	plug
	Housing main material	Plastic
	Status indicator available	No
	Shielding available	Yes
	Cable side	right
	Version of contact face	M12
	Coding of plug	X
	Protection degree (IP)	IP67
	Gender of contact	male contact
	Outlet direction	straight
	Version of connector	plug
Housing main material	Plastic	
Status indicator available	No	
Shielding available	Yes	
Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded	
Plug right	M12, X, IP67, male contact, straight, plug, Plastic, shielded	

Plug, left

Connector left	Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded
	RJ45 IP 20	

Plug, right

Connector right	Plug right	M12, X, IP67, male contact, straight, plug, Plastic, shielded
	M12 X-type IP 67 straight male	

Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	EC002599	ECLASS 9.0	27-06-03-08
ECLASS 9.1	27-06-03-08	ECLASS 10.0	27-06-03-08
ECLASS 11.0	27-06-03-08	ECLASS 12.0	27-06-03-08

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	67cf1078-beca-4687-860b-dc475a6ec24a

Approvals

ROHS	Conform
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Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

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Zeichnungen

Wiring

RJ45			M12
1	White, Orange	1	
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



Detailed drawing

