

IE-C6EL8UG0100XCSXCA-E**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

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, 10 m
Order No.	2485580100
Type	IE-C6EL8UG0100XCSXCA-E
GTIN (EAN)	4050118496185
Qty.	1 pc(s).

Creation date March 29, 2021 5:43:22 PM CEST

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

IE-C6EL8UG0100XCSXCA-E

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Length	10 m	Length (inches)	393.701 inch
Net weight	484 g		

Temperatures

Storage temperature	-40 °C...80 °C	Operating 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
---------------------	------------------------	--------------------	----------------

Standards

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

Cable structure

Arrangement of wire cores		Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
	Twisted pair		
Complete shielding	Shielding braid made from copper wiring	Copper diameter	0.48 µm
Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm²	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 E _A (ISO/IEC 11801 2010)	Characteristic impedance	100 ± 5 Ω at 100MHz
Loop resistance	290 Ω/km	Signal propagation time	5.2 ns/m
Speed	10 GBit/s	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		

IE-C6EL8UG0100XCSXCA-E

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

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	Speed	10 GBit/s

Plug, left

Connector left	M12 X-type IP 67 straight male
----------------	--------------------------------

Plug, right

Connector right	M12 X-type IP67 male, angled
-----------------	------------------------------

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	ECLASS 11.0	27-06-03-08

Approvals

ROHS	Conform
------	---------

IE-C6EL8UG0100XCSXCA-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings**Wiring**

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

Pinning