

**Industrial Ethernet
IE-C6ES8UG0200A40A40-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, patch cable Cabinet Line, various colours

General ordering data

Type	IE-C6ES8UG0200A40A40-E
Order No.	8909650200
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), PUR, 20 m
GTIN (EAN)	4032248691067
Qty.	1 pc(s).

Industrial Ethernet IE-C6ES8UG0200A40A40-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

Technical data

Dimensions and weights

Length	20 m	Length (inches)	0.787 inch
Net weight	824 g	Insulation cross-section	1.03 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	-15 °C...60 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
------------	----------------

Cable specific standards

Corrosiveness of fumes	to IEC 60754-2	Generic communication cable facilities	EN 50173-1:2007, ISO / IEC 11801:2002
Standard, assembly	UL-Style 20963 (80°C/30V)		

General standards

Connector standard	IEC 60603-7-51
--------------------	----------------

Cable structure

Copper diameter	0.48 mm	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	1.03 mm	Arrangement of wire cores	Twisted pair
Wire pair shielding		Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
	Aluminium foil	Complete shielding	Shielding braid made from copper wiring
Shielding	S/FTP	Material sheath	PUR
Shielding braid thickness	0.1 mm	Sheath diameter, max.	6.6 mm
Sheath diameter, min.	6.2 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 AC
Characteristic impedance	100 ± 5 Ω at 100MHz	Loop resistance	290 Ω/km
Deviation		Transfer impedance	15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz
	3 ns/100m	Signal propagation time	4.5 ns/m
Capacity at 1 kHz	45 nF/km		
Speed	10 GBit/s		

Industrial Ethernet IE-C6ES8UG0200A40A40-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

Technical data

Mechanical and material properties of cable

Min. bending radius, once only	5 x cable diameter	Min. bending radius, repetitive	10 x cable diameter
Pulling force	≤ 100 N	Speed	10 GBit/s
Abrasion resistance	very good	Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	Halogen	halogen-free, according to IEC 60754-2
Corrosiveness of fumes	to IEC 60754-2		

plug

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
----------------	------------	-----------------	------------

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	UNSPSC	26-12-16-06

Approvals

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

Downloads

Brochure/Catalogue	FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

Industrial Ethernet IE-C6ES8UG0200A40A40-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

Drawings

Wiring

RJ45	1	white (orange)	1	RJ45
	2	orange	2	
	3	white (green)	3	
	4	blue	4	
	5	white (blue)	5	
	6	green	6	
	7	white (brown)	7	
	8	brown	8	