

**Industrial Ethernet
IE-C6ES8UG0200A40A40-E**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
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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).

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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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
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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 60603-7-5 1
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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	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.	6.2 mm	Sheath diameter, max.	6.6 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	3 ns/100m	Transfer impedance	15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz
Capacity at 1 kHz	45 nF/km	Signal propagation time	4.5 ns/m
Speed	10 GBit/s		

Data sheet

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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
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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
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Downloads

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

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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	
