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**Industrial Ethernet  
IE-C6ES8UG0020A40A40-E**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
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**

Order No.	<a href="#">8815050000</a>
Type	IE-C6ES8UG0020A40A40-E
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.7 (ISO/IEC 11801), PUR, 2 m
GTIN (EAN)	4032248514823
Qty.	1 pc(s).

## Industrial Ethernet IE-C6ES8UG0020A40A40-E

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### Technical data

#### Dimensions and weights

Length	2 m	Net weight	121 g
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#### Temperatures

Operating temperature	-40 °C...+80 °C	Storage temperature	-40 °C...+80 °C
Installation temperature	-15 °C...+60 °C		

#### Standards

Corrosiveness of fumes	to IEC 60754-2	Generic communication cable facilities	EN 50173-1:2007, ISO / IEC 11801:2002
Connector standard	IEC 60603-7-51	Standard, assembly	UL-Style 20963 (80°C/30V)

#### 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 <sup>2</sup>	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
Shielding	Aluminium foil	Complete shielding	Shielding braid made from copper wiring
Shielding braid thickness	S/FTP	Material sheath	PUR
Sheath diameter, min.	0.1 mm	Sheath diameter, max.	6.6 mm
Sheathing colour	6.2 mm		
	green (RAL 6018)		

#### Electrical properties of cable

Category	Cat.7 (ISO/IEC 11801)	Test voltage: wire-wire-shield, at RMS 50Hz, 1 min.	700 V
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
Capacity at 1 kHz	3 ns/100m 45 nF/km	Signal propagation time	4.5 ns/m

#### Mechanical and material properties of cable

Min. bending radius, once only	5 *diameter	Min. bending radius, repetitive	10 *diameter
Pulling force	≤ 100 N	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	in accordance with IEC 60754-2	Corrosiveness of fumes	to IEC 60754-2

#### plug

Version connector left	RJ45 IP 20	Version connector right	RJ45 IP 20
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**Technical data****Classifications**

ETIM 2.0	EC001262	ETIM 3.0	EC001262
UNSPSC	26-12-16-06	eClass 4.1	27-06-08-05
eClass 5.1	27-06-18-02	eClass 6.2	27-06-18-01
eClass 7.1	27-06-18-01		

**Approvals**

Approvals



ROHS

Conform

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**Drawings****Wiring**

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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	

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