

**Industrial Ethernet
IE-C6ES8UG0300A40A40-E**

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Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5 , 6 and 14
- Cat. 6 throughout_A with **STEADYTEC®** technology
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

General ordering data

Order No.	8909650300
Type	IE-C6ES8UG0300A40A40-E
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.7 (ISO/IEC 11801), PUR, 30 m
GTIN (EAN)	4032248697076
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	30 m	Net weight	1,533 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 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
Shielding	Aluminium foil	Complete shielding	Shielding braid made from copper wiring
	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.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
	3 ns/100m		
Capacity at 1 kHz	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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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