

**Industrial Ethernet  
IE-C6ES8UG0500A40A40-E**

**Weidmüller Interface GmbH & Co. KG**  
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Assembled IE cables, patch cable Cabinet Line, various colours

**General ordering data**

Type	IE-C6ES8UG0500A40A40-E
Order No.	<a href="#">8909650500</a>
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.6 <sub>A</sub> / Class E <sub>A</sub> (ISO/IEC 11801 2010), PUR, 50 m
GTIN (EAN)	4050118473650
Qty.	1 pc(s).

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**Technical data**
**Dimensions and weights**

Length	50 m	Length (inches)	1.969 inch
Net weight	400 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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**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)		

**Cable structure**

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	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.6 <sub>A</sub> / Class E <sub>A</sub> (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		

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# 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
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### Classifications

ETIM 3.0	EC001262	ETIM 6.0	EC002599
UNSPSC	26-12-16-06	eClass 5.1	27-06-18-02
eClass 6.2	27-06-18-01	eClass 9.0	27-06-03-08
eClass 9.1	27-06-03-08		

### Approvals

ROHS	Conform
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### Downloads

Brochure/Catalogue	<a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>
User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a>

**Data sheet****Industrial Ethernet  
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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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