

**Industrial Ethernet
IE-C6ES8UG0050A46A46-X****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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Assembled IE cables, SnapIn connectors according to IEC
61076-3-106 ver.6, Cat. 6, green

General ordering data

Type	IE-C6ES8UG0050A46A46-X
Order No.	8815100000
Version	System cable, RJ45 IP 67 snap-in V06 plastic, RJ45 IP 67 V 06, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), PUR, 5 m
GTIN (EAN)	4032248514878
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	5 m	Length (inches)	0.197 inch
Net weight	293 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
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
	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		

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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 67 snap-in V06 plastic	Connector right	RJ45 IP 67 V 06
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Classifications

ETIM 3.0	EC001262	ETIM 4.0	EC000830
ETIM 5.0	EC000830	ETIM 6.0	EC002599
UNSPSC	26-12-16-06	eClass 5.1	27-06-18-02
eClass 6.2	27-06-18-01	eClass 7.1	27-06-18-01
eClass 8.1	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	FL FIELDWIRING EN PI PROFINET CABLING EN
Engineering Data	WSCAD
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	