

**Industrial Ethernet  
IE-C6FS8UG0005A40A40-G**

**Weidmüller Interface GmbH & Co. KG**  
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Germany  
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Assembled IE cables, patch cable Cabinet Line, Cat. 6,  
PUR, green

**General ordering data**

Type	IE-C6FS8UG0005A40A40-G
Order No.	<a href="#">8941350005</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, 0.5 m
GTIN (EAN)	4032248734580
Qty.	1 pc(s).

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

Length	0.5 m	Length (inches)	0.02 inch
Net weight	37 g	Insulation cross-section	1.02 mm

**Temperatures**

Operating temperature, max.	85 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature	-40 °C...85 °C	Storage temperature	-40 °C...85 °C
Installation temperature	-10 °C...60 °C		

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Electrical properties**

PoE / PoE+	conforming to IEEE 802.3at
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**Standards**

Corrosiveness of fumes	According to EN50288-2-2	Generic communication cable facilities	ISO / IEC 11801:2002, ANSI / TIA / EIA-568- B.2-10, EN 50173-1:2007
Connector standard	IEC 60603-7-51		

**Cable structure**

Wire material	Stranded tin-plated copper wire	Strands	7
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm <sup>2</sup>	Insulation	PE
Insulation cross-section	1.02 mm	No. of wires	8
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	Overlap of shielding braid	60 %
Material sheath	PUR	Sheath diameter, min.	6 mm
Sheath diameter, max.	6.4 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	750 V DC, 1 min
Characteristic impedance	100 ± 15 Ω at 1–100 MHz, 100 ± 22 Ω at 100–250 MHz, 100 ± 25 Ω at 250–600 MHz	Deviation	25 ns/100m
Capacity at 1 kHz	46 nF/km	Signal propagation time	4.27 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
Speed	10 GBit/s	Abrasion resistance	very good
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2	Resistance to oils	in accordance with IEC 60811-2-1
UV-resistant	Yes	Silicone-free	Yes
Halogen	halogen-free, according to IEC 60754-2	Corrosiveness of fumes	According to EN50288-2-2

**plug**

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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**Classifications**

ETIM 3.0	EC000830	ETIM 4.0	EC000830
ETIM 5.0	EC000830	ETIM 6.0	EC002599
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	<a href="#">CAT 9 IETH 15/16 EN</a> <a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>
Engineering Data	<a href="#">WSCAD</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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