

**Industrial Ethernet
IE-C6FS8UG0050A40A40-G****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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www.weidmueller.com



Assembled IE cables, patch cable Cabinet Line, Cat. 6,
PUR, green

General ordering data

Type	IE-C6FS8UG0050A40A40-G
Order No.	8941350050
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), PUR, 5 m
GTIN (EAN)	4050118089714
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	5 m	Length (inches)	0.197 inch
Net weight	198 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 ²	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.6A / Class EA (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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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 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	CAT 9 IETH 15/16 EN FL FIELDWIRING EN PI PROFINET CABLING EN
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	