

IE-C6FS8UG0500A40A40-G

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



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

General ordering data

Version	System cable, RJ45 IP 20, RJ45 IP 20, <20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010), PUR, 50 m
Order No.	8941350500
Type	IE-C6FS8UG0500A40A40-G
GTIN (EAN)	4032248863754
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E316369

Dimensions and weights

Length	50 m	Length (inches)	1968.5039 inch
Net weight	1990 g		

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

Cable specific standards

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

PoE / PoE+ conforming to IEEE 802.3at

General standards

Connector standard	IEC 60603-7-51	Certificate no. (cULus)	E316369
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Standards

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

Cable structure

Strands	7	Sheathing colour	green
Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm ²	Shielding	S/FTP
Number of wires	8	Insulation cross-section	1.02 mm
Insulation	PE	Sheath diameter, max.	6.4 mm
Sheath diameter, min.	6 mm	Material sheath	PUR
Wire pair shielding	Aluminium foil	Arrangement of wire cores	Twisted pair

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Complete shielding	Shielding braid made from copper wiring	Overlap of shielding braid	60 %
Wire material	Stranded tin-plated copper wire	Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown

Electrical properties of cable

Transmission rate	10 Gbit/s	Category	<20 m: Cat.6A / >20 m Class EA (ISO/IEC 11801 2010)
Capacity at 1 kHz	46 nF/km	Signal propagation time	4.27 ns/m
Test voltage: wire-wire-shield	750 V DC, 1 min	Delay skew	25 ns/100m
Characteristic impedance	100 ± 15 Ω at 1–100 MHz, 100 ± 22 Ω at 100–250 MHz, 100 ± 25 Ω at 250–600 MHz		

Mechanical and material properties of cable

Resistance to oils	in accordance with IEC 60811-2-1	Silicone-free	Yes
UV-resistant	Yes	Halogen	halogen-free, according to IEC 60754-2
Min. bending radius, repetitive	10 x cable diameter	Min. bending radius, once only	5 x cable diameter
Abrasion resistance	very good	Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1581 FT2
Corrosiveness of fumes	According to EN50288-2-2		

Plug

Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded	Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded
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Plug, left

Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded
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Plug, right

Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded
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Classifications

ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	EC002599	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		

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Drawings

Wiring

Dimensioned drawing

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	