

IE-C6FS8UG0500A40A40-G

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

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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 pc(s).

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Technical data

Dimensions and weights

Length	50 m	Length (inches)	1.968504 inch
Net weight	1,990 g		

Temperatures

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

Cable specific 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
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Electrical properties

PoE / PoE+	conforming to IEEE 802.3at
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General standards

Certificate no. (cULus)	E316369	Connector standard	IEC 60603-7-5 1
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Standards

Connector standard	IEC 60603-7-5 1	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		

Cable structure

Arrangement of wire cores	Twisted pair	Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
Complete shielding	Shielding braid made from copper wiring	Cross-section	4*2*AWG 27/7 - 4*2*0.1 mm ²
Insulation	PE	Insulation cross-section	1.02 mm
Material sheath	PUR	Number of wires	8
Overlap of shielding braid	60 %	Sheath diameter, max.	6.4 mm
Sheath diameter, min.	6 mm	Sheathing colour	green
Shielding	S/FTP	Strands	7
Wire material	Stranded tin-plated copper wire	Wire pair shielding	Aluminium foil

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20 m, Cat.6A / >20 m
Class EA (ISO/IEC 11801
2010)

Technical data

Electrical properties of cable

Capacity at 1 kHz	46 nF/km	Category	20 m, Cat.6A / >20 m Class EA (ISO/IEC 11801 2010)
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
Signal propagation time	4.27 ns/m	Test voltage: wire-wire-shield	750 V DC, 1 min
Transmission rate	10 Gbit/s		

Mechanical and material properties of cable

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

Plug

Plug	Cable side	left
	Version of contact face	RJ45
Plug left	Protection degree (IP)	IP20
	Gender of contact	male contact
Plug right	Outlet direction	straight
	Version of connector	plug
Plug left	Housing main material	Plastic
	Status indicator available	No
Plug right	Shielding available	Yes
	Cable side	right
Plug left	Version of contact face	RJ45
	Protection degree (IP)	IP20
Plug right	Gender of contact	male contact
	Outlet direction	straight
Plug left	Version of connector	plug
	Housing main material	Plastic
Plug right	Status indicator available	No
	Shielding available	Yes
Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded	
Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded	

Plug, left

Connector left	Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded
	RJ45 IP 20	

Plug, right

Connector right	Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded
	RJ45 IP 20	

Creation date June 12, 2023 2:09:40 PM CEST

Catalogue status 09.06.2023 / We reserve the right to make technical changes.

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Technical data**Classifications**

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	EC002599	ECLASS 9.0	27-06-03-08
ECLASS 9.1	27-06-03-08	ECLASS 10.0	27-06-03-08
ECLASS 11.0	27-06-03-08	ECLASS 12.0	27-06-03-08

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E316369

Downloads

Engineering Data	CAD data – STEP
Engineering Data	WSCAD
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN PI PROFINET CABLING EN

Data sheet

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Drawings

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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	

