

Industrial Ethernet
IE-C5ED8UG0020A46A46-X**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16
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Germany
Fon: +49 5231 14-0
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Assembled IE cables, SnapIn connectors according to IEC
61076-3-106 ver.6

General ordering data

Order No.	8829720000
Type	IE-C5ED8UG0020A46A46-X
Version	Dragline cable, RJ45 IP 67 snap-in V06 plastic, RJ45 IP 67 V 06, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2 m
GTIN (EAN)	4032248533886
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	2 m	Net weight	160 g
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Temperatures

Operating temperature	-40 °C...+80 °C	Storage temperature	-40 °C...+80 °C
Installation temperature	-20 °C...+60 °C		

Electrical properties

Insulation resistance	500.000 Ω	Operating voltage	100 V
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Standards

Impervious to smoke	According to IEC 61034-2	Connector standard	IEC 60603-7-51
Standard, assembly	UL-Style 20963 (80°C/30V)	Standard, insulating material	DIN EN 50290-2-25 (HD 624.5)
Standard, wire material	DIN EN 13602 Cu-ETP-A	Standard, shielding material	DIN EN 13602 Cu-ETP- A..B

Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	L19Y(ST)C11Y 4X2X0.14 VZN GN, SF/UTP
Strands	7	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm ²
Insulation cross-section	0.95 mm	Wire core insulation thickness	0.23 mm
Arrangement of wire cores	Twisted pair	Diameter of wire pair	1.9 mm
Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown	Filler	As central element, Between the individual wire pairs
Shielding	SF/UTP	Complete shielding	Plastic foil, Aluminium foil, Shielding braid made from copper wiring
Shielding braid thickness	0.1 mm	Overlap of shielding braid	90 %
Material sheath	PUR	Sheath diameter, min.	6.3 mm
Sheath diameter, max.	6.8 mm	Sheathing material thickness	0.85 mm
Sheathing colour	green (RAL 6018)		

Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Operating voltage	100 V
Operating voltage, UL	30 V	Test voltage: wire-wire-shield, at RMS 50Hz, 1 min.	700 V
Characteristic impedance	100 ± 5 Ω at 100MHz	Loop resistance	270 Ω/km
Deviation	40 ns/100m	Resistance differential	2 %
Transfer impedance	100 mΩ/m at 10 MHz	Insulation resistance	500.000 Ω
Capacity at 800 Hz	50 nF/km	Signal propagation time	5.55 ns/m

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Technical data
Mechanical and material properties of cable

Min. bending radius, once only	4 *diameter	Min. bending radius, repetitive	7.5 *diameter
Pulling force	≤ 100 N	Speed	180 m/min
Acceleration	5 m/s ²	Torsion resistance	30 °/m
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	UV-resistant	Yes
Silicone-free	Yes	Halogen	in accordance with IEC 60754-2
Impervious to smoke	According to IEC 61034-2	Fire propagation	No

plug

Version connector left	RJ45 IP 67 snap-in V06 plastic	Version connector right	RJ45 IP 67 V 06
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Classifications

ETIM 2.0	EC001262	ETIM 3.0	EC001262
UNSPSC	26-12-16-06	eClass 4.1	27-06-08-05
eClass 5.1	27-06-18-02	eClass 6.2	27-06-18-01
eClass 7.1	27-06-18-01		

Approvals

Approvals	
ROHS	Conform

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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	
