

IE-C5ED8UG0045A40A40-E**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5 , 6 and 14
- consistently Cat. 6_A with **STEADYTEC®** technology
- in IP20 and IP67
- all relevant industrial connections: RJ45, SC, ...
- comprehensive range of accessories

General ordering data

Version	Dragline cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 4.5 m
Order No.	1345030045
Type	IE-C5ED8UG0045A40A40-E
GTIN (EAN)	4050118652161
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	4.5 m	Length (inches)	177.165 inch
Net weight	259.54 g		

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Cable specific standards

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

Electrical properties

Insulation strength	500,000 Ω
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Cable structure

Arrangement of wire cores		Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown
	Twisted pair		
Complete shielding	Plastic foil, Aluminium foil, Shielding braid made from copper wiring	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm ²
Diameter of wire pair	1.9 mm	Filler	As central element, Between the individual wire pairs
Insulation cross-section	0.95 mm	Material sheath	PUR
Overlap of shielding braid	90 %	Sheath diameter, max.	6.8 mm
Sheath diameter, min.	6.3 mm	Sheathing colour	green (RAL 6018)
Sheathing material thickness	0.85 mm	Shielding	SF/UTP
Shielding braid thickness	0.1 mm	Standard designations	LI9Y(ST)C11Y 4X2X0.14 VZN GN, SF/UTP
Strands	7	Wire core insulation thickness	0.23 mm
Wire material	Stranded tin-plated copper wire		

Electrical properties of cable

Capacity at 800 Hz	50 nF/km
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Characteristic impedance	100 ± 5 Ω at 100MHz
Deviation	40 ns/100m
Insulation strength	500,000 Ω
Loop resistance	270 Ω/km
Operating voltage (UL rating)	Operating voltage 30 V
Operating voltage (UL rating)	30 V undefined

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Technical data

Operating voltage, UL	30 V
Resistance differential	2 %
Signal propagation time	5.55 ns/m
Speed	180 m/min
Test voltage: wire-wire-shield	700 V _{rms} , 50 Hz, 1 min
Transfer impedance	100 mΩ/m at 10 MHz

Mechanical and material properties of cable

Abrasion resistance	very good	Acceleration	5 m/s ²
Fire propagation	No	Halogen	halogen-free, according to IEC 60754-2
Impervious to smoke	According to IEC 61034-2	Min. bending radius, once only	4 x cable diameter
Min. bending radius, repetitive	7.5 x cable diameter	Pulling force	≤ 100 N
Resistance to oils	in accordance with IEC 60811-2-1	Resistance to spread of flame	in accordance with IEC 60332-1
Silicone-free	Yes	Speed	180 m/min
Torsion resistance	30 °/m	UV-resistant	Yes

plug

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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Rating

Insulation strength	500,000 Ω
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Classifications

ETIM 6.0	EC002599	ETIM 7.0	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

Approvals

ROHS	Conform
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Downloads

Engineering Data	STEP
Brochure/Catalogue	Catalogues in PDF-format