

**Industrial Ethernet
IE-C5ED8UG0050XCSXCS-E**

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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
- Cat. 6 throughout_A with **STEADYTEC**® technology
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

General ordering data

Type	IE-C5ED8UG0050XCSXCS-E
Order No.	1510030050
Version	Dragline cable, M12 X-type IP 67 straight male, M12 X-type IP 67 straight male, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 5 m
GTIN (EAN)	4050118319286
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	5 m	Length (inches)	0.197 inch
Net weight	301 g	Insulation cross-section	0.95 mm

Temperatures

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

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Electrical properties

Insulation strength	500,000 Ω
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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, 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 (UL rating)	30 V undefined
Test voltage: wire-wire-shield	700 V _{rms} , 50 Hz, 1 min	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 strength	500,000 Ω	Capacity at 800 Hz	50 nF/km
Signal propagation time	5.55 ns/m	Speed	180 m/min

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Technical data
Mechanical and material properties of cable

Min. bending radius, once only	4 x cable diameter	Min. bending radius, repetitive	7.5 x cable 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	halogen-free, according to IEC 60754-2
Impervious to smoke	According to IEC 61034-2	Fire propagation	No

plug

Connector left	M12 X-type IP 67 straight male	Connector right	M12 X-type IP 67 straight male
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Classifications

ETIM 5.0	EC000748	ETIM 6.0	EC002599
eClass 6.2	27-06-03-90	eClass 7.1	27-06-03-90
eClass 8.1	27-06-03-90	eClass 9.0	27-06-03-08
eClass 9.1	27-06-03-08		

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN