

IE-S1DS2VE0050T01T01-E

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Single pair Ethernet is a technology that only requires one pair of wires to transmit data and power. The resulting benefits will make SPE the preferred network at the field level and beyond.

Advantages of Single Pair Ethernet

- Consistent: Single Pair Ethernet enables uniform Ethernet-based communication from the sensor to the cloud
- Future-proof: key technology for Industry 4.0 and IIoT
- Flexible: ranges of up to 1000 m and transmission properties of up to 1 Gbps enable use across applications
- Innovative: lighter, less space required, and reduced installation effort

General ordering data

Version	Patch cable, Plug acc. to IEC 63171-2, SPE plug (IEC 63171-2) - IP20 female straight, Plug acc. to IEC 63171-2, SPE plug (IEC 63171-2) - IP20 female straight, T1-B, PVC
Order No.	2725850050
Type	IE-S1DS2VE0050T01T01-E
GTIN (EAN)	4050118825336
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Net weight	0.176 g
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Temperatures

Operating temperature	-40 °C...80 °C
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Cable specific standards

Application-specific communication cable facilities	ISO/IEC 11801-1 Amd.1, ISO/IEC 11801-3 Amd.1, ISO/IEC 11801-6 Amd.1
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Electrical properties

Dielectric strength, contact / contact	1000 V DC	Dielectric strength, contact / shield	2250 V DC
Insulation strength	≥ 500 MΩ	PoE / PoE+	PoDL acc. to IEEE 802.3bu / cg
Rated voltage	60 V		

General standards

Connector standard	IEC 63171-2
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Standards

Application-specific communication cable facilities	ISO/IEC 11801-1 Amd.1, ISO/IEC 11801-3 Amd.1, ISO/IEC 11801-6 Amd.1	Connector standard	IEC 63171-2
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Cable structure

Colour coding	white / blue	Complete shielding	Shielding braid made from copper wiring
Cross-section	2*AWG 22	Insulation	PE
Insulation diameter 2	1.65 mm	Material sheath	PVC
Number of wires	2	Overlap of shielding braid	80 %
Sheath diameter, max.	5.3 mm	Sheath diameter, min.	4.9 mm
Sheathing colour	black	Shielding	STP
Strands	7		

Electrical properties of cable

Capacity at 800 Hz	1.6 nF/km	Category	T1-B
Characteristic impedance	100 ± 15 Ω at 20 MHz	Coupling attenuation 1 to 600 MHz	Type I
Coupling attenuation up to 1000 MHz	80 dB	Insulation strength	≥ 500 MΩ
Operating voltage	300 V	Rated current	3.5 A
Resistance differential	2 %	Test voltage: wire-wire-shield	1 kV DC, 1 min
Transmission rate	10/100 MBit/s, 1000 Mbit/s, 1000 MBit/s		

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Technical data
Mechanical and material properties of cable

Bending radius	20 mm	Colour	black
Halogen		Resistance to oils	IRM 902/903 oil resistance test at (70°Cx4h)
Resistance to spread of flame	Yes	UV-resistant	Complies with UL 1581 Sec. 1200
	FT1		

Plug, left

Connector left	Plug acc. to IEC 63171-2, SPE plug (IEC 63171-2) - IP20 female straight
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Plug, right

Connector right	Plug acc. to IEC 63171-2, SPE plug (IEC 63171-2) - IP20 female straight	Housing main material	Elastollan
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plug

Connector left	Plug acc. to IEC 63171-2, SPE plug (IEC 63171-2) - IP20 female straight	Connector right	Plug acc. to IEC 63171-2, SPE plug (IEC 63171-2) - IP20 female straight
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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

Downloads

Engineering Data	STEP
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Data sheet

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Drawings

Detailed drawing



Dimensional drawing

