

IE-S1DS2VE0050T01T01-E**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**SPElink®**

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, SPE plug (IEC 63171-2) - IP20 socket contact straight, SPE plug (IEC 63171-2) - IP20 socket contact straight, T1-B, PVC, 5 m
Order No.	2725850050
Type	IE-S1DS2VE0050T01T01-E
GTIN (EAN)	4050118825336
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	5 m	Length (inches)	196.85 inch
Net weight	176 g		

Temperatures

Operating temperature	-40 °C...80 °C
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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

Standards

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
Insulation strength	≥ 500 MΩ	Rated current	3.5 A
Rated voltage (DC)	60 V	Resistance differential	2 %
Test voltage: wire-wire-shield	1 kV DC, 1 min	Transmission rate	10/100 MBit/s, 1000 MBit/s

Mechanical and material properties of cable

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

Plug

Plug left	SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded	Plug right	SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded
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Plug, left

Plug left	SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded
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Creation date May 11, 2025 10:07:38 PM CEST

Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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Technical data

Plug, right

Plug right	SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded
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Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	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
ECLASS 13.0	27-06-03-08	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/
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ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E316369

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

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Drawings

Detailed drawing



Dimensional drawing

