

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.	<a href="#">2725850050</a>
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	0.176 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 April 29, 2024 7:07:11 PM CEST

Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Plug, right**

Housing main material	Plug right	SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded
Elastollan		

**Classifications**

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	EC002599	ETIM 9.0	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

**Approvals**

Approvals



UL File Number Search	UL Website
Certificate no. (cULus)	E316369

**Downloads**

Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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## Drawings

### Detailed drawing



### Dimensional drawing

