

## IE-S1DS2VE0100T01T01-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, 10 m
Order No.	<a href="#">2725850100</a>
Type	IE-S1DS2VE0100T01T01-E
GTIN (EAN)	4064675596264
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Length	10 m	Length (inches)	393.701 inch
Net weight	375 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
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
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
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 June 13, 2025 2:27:28 AM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

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[www.weidmueller.com](http://www.weidmueller.com)**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	<a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a>
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E316369

**Downloads**

Catalogues	<a href="#">Catalogues in PDF-format</a>
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**Data sheet**

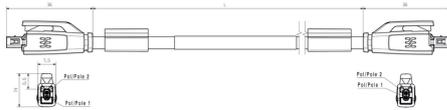
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**Drawings**

**Detailed drawing**



**Dimensional drawing**

