

**IE-S1DS2VE0020T01T01-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, SPE plug (IEC 63171-2) - IP20 female straight, SPE plug (IEC 63171-2) - IP20 female straight, PVC, 2 m
Order No.	<a href="#">2725850020</a>
Type	IE-S1DS2VE0020T01T01-E
GTIN (EAN)	4050118825312
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Length	2 m	Length (inches)	78.74 inch
Net weight	0.077 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		

## General 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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## 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	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, 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, left

Connector left	SPE plug (IEC 63171-2) - IP20 female straight
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Catalogue status 07.05.2021 / We reserve the right to make technical changes.

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**Data sheet**

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**Technical data**

**Plug, right**

Connector right	SPE plug (IEC 63171-2) - IP20 female straight	Housing main material	Elastollan
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**plug**

Connector left	SPE plug (IEC 63171-2) - IP20 female straight	Connector right	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

**Approvals**

Approvals



**Downloads**

Engineering Data	<a href="#">STEP</a>
Brochure/Catalogue	<a href="#">Catalogues in PDF-format</a>

**Data sheet**

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**Drawings**

**Detailed drawing**



**Dimensional drawing**



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## Mating connector (fully pluggable)

## Single-Pair-Ethernet



## Single Pair Ethernet PCB sockets

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## General ordering data

Type	IE-PCB-SP0-P-90V-THR-YG ...	Version	Packaging
Order No.	<a href="#">2795120000</a>	PCB plug-in connector, male header, Clip-on flange, THT/THR solder connection, 1.80 mm, Number of poles: 2, 90°, Solder pin length (l): 2.1 mm, Ni/Au, black, Tape	Tape
GTIN (EAN)	4064675 119227		
Qty.	100 pc(s).		
Type	IE-PCB-SP0-P-180V-THR	Version	Packaging
Order No.	<a href="#">2795170000</a>	PCB plug-in connector, male header, Clip-on flange, THT/THR solder connection, 1.80 mm, Number of poles: 2, 180°, Solder pin length (l): 2.1 mm, Ni/Au, silver, black, Tape	Tape
GTIN (EAN)	4064675 119265		
Qty.	100 pc(s).		
Type	IE-PCB-SP0-P-90V-THR	Version	Packaging
Order No.	<a href="#">2726010000</a>	PCB plug-in connector, male header, Clip-on flange, THT/THR solder connection, 1.80 mm, Number of poles: 2, 90°, Solder pin length (l): 2.1 mm, Ni/Au, silver, black, Tape	Tape
GTIN (EAN)	4050118810769		
Qty.	100 pc(s).		

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