

## IE-S1DS2VE0020TM1TM1-E

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, M8 SPE ( IEC6317 1-5) - IP67 socket contact - straight, M8 SPE ( IEC63 171-5) - IP67 socket contact - straight, PVC, 2 m
Order No.	<a href="#">2726050020</a>
Type	IE-S1DS2VE0020TM1TM1-E
GTIN (EAN)	4050118826081
Qty.	1 pc(s).

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## Technical data

## Dimensions and weights

Length	2 m	Length (inches)	78.74 inch
Net weight	45 g		

## Temperatures

Operating temperature	-40 °C...85 °C
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## Electrical properties

Current-carrying capacity	Current-carrying capacity	3.5 A
	Temperature	0 °C
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 63171-5
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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

## 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	M8 SPE ( IEC63171-5) - IP67 socket contact - straight
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## Technical data

## Plug, right

Connector right	M8 SPE ( IEC63171-5) - IP67 socket contact - straight	Housing main material	Elastollan
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## plug

Connector left	M8 SPE ( IEC63171-5) - IP67 socket contact - straight	Connector right	M8 SPE ( IEC63171-5) - IP67 socket contact - straight
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## Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	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



ROHS

Conform

## Downloads

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

**Data sheet**

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**Drawings**

