

**IE-S1DS2VE0020TM2TM2-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, M8 SPE ( IEC6317 1-5) - IP67 pin contact - straight, M8 SPE ( IEC6317 1-5) - IP67 pin contact - straight, T1-B, PVC, 2 m
Order No.	<a href="#">2726070020</a>
Type	IE-S1DS2VE0020TM2TM2-E
GTIN (EAN)	4050118826098
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	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, left

Connector left	M8 SPE ( IEC63171-5) - IP67 pin contact - straight
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**Data sheet**

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**Technical data**

**Plug, right**

Connector right	M8 SPE ( IEC63171-5) - IP67 pin contact - straight	Housing main material	Elastollan
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**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	27060308

**Approvals**

Approvals



ROHS	Conform
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**Downloads**

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

**Data sheet**

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**Drawings**

