Data sheet

IE-S1DS2VE0100TM1TM1-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

SPElink®

RoHS COMPLIANT

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 (IEC63171-5) - IP67 socket contact - straight, M8 SPE (IEC63171-5) - IP67 socket contact - straight, T1-B, PVC, 10 m
Order No.	2726050100
Type	IE-S1DS2VE0100TM1TM1-E
GTIN (EAN)	4064675597452
Qty.	1 items

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Technical data

Approvals

Approvals	CE
ROHS	Conform

Dimensions and weights

Length	10 m	Length (inches)	393.7008 inch
Net weight	335 g		

Temperatures

Storage temperature		Operating temperature	-40 °C...85 °C
Installation temperature			

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Electrical properties

Dielectric strength, contact / shield	2250 V DC	
Dielectric strength, contact / contact	1000 V DC	
Current-carrying capacity	Current-carrying capacity	3.5 A
	Temperature	0 °C
PoE / PoE+	PoDL acc. to IEEE 802.3bu / cg	

Standards

Connector standard	IEC 63171-5

Cable structure

Strands	7	Sheathing colour	black
Cross-section	2*AWG 22	Shielding	STP
Number of wires	2	Insulation	PE
Sheath diameter, max.	5.3 mm	Sheath diameter, min.	4.9 mm
Material sheath	PVC	Colour coding	white / blue
Complete shielding	Shielding braid made from copper wiring	Overlap of shielding braid	80 %
Insulation diameter 2	1.65 mm		

Electrical properties of cable

Rated voltage (DC)	60 V	Transmission rate	10/100 MBit/s, 1000 MBit/s
Category	T1-B	Nominal current	3.5 A
Coupling attenuation 1 to 600 MHz	Type I	Test voltage: wire-wire-shield	1 kV DC, 1 min
Capacity at 800 Hz	1.6 nF/km	Resistance differential	2 %
Characteristic impedance	100 ± 15 Ω at 20 MHz		

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Mechanical and material properties of cable

Resistance to oils	IRM 902/903 oil resistance test at (70°Cx4h)	UV-resistant	Complies with UL 1581 Sec. 1200
Colour	black	Halogen	Yes
Resistance to spread of flame	FT1		

Plug

Plug right	M8, Number of poles: 2, IP67, female contact, straight, Plastic, IEC 63171-5, shielded	Plug left	M8, Number of poles: 2, IP67, female contact, straight, Plastic, IEC 63171-5, shielded

Plug, left

Plug left	M8, Number of poles: 2, IP67, female contact, straight, Plastic, IEC 63171-5, shielded

Plug, right

Plug right	M8, Number of poles: 2, IP67, female contact, straight, Plastic, IEC 63171-5, shielded

Classifications

ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	EC002599	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		

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Drawings