

IE-S1DS2VE0020TM2TM2-E

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

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, M8 SPE (IEC63171-5) - IP67 pin contact - straight, M8 SPE (IEC63171-5) - IP67 pin contact - straight, T1-B, PVC, 2 m |
| Order No. | 2726070020 |
| Type | IE-S1DS2VE0020TM2TM2-E |
| GTIN (EAN) | 4050118826098 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|------|-----------------|--------------|
| Length | 2 m | Length (inches) | 78.7402 inch |
| Net weight | 45 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|------------------------|-----------------------|
| RoHS Compliance Status | Compliant |
| 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 |
| Bending radius | 20 mm | Resistance to spread of flame | FT1 |

Plug

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

Plug, left

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

Plug, right

| | |
|------------|--|
| Plug right | M8, Number of poles: 2, IP67, male 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

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