

**IE-S1DS2VE0200TM1TM1-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 socket contact - straight, M8 SPE ( IEC63171-5) - IP67 socket contact - straight, T1-B, PVC, 20 m |
| Order No.  | <a href="#">2726050200</a>   |
| Type       | IE-S1DS2VE0200TM1TM1-E   |
| GTIN (EAN) | 4064675597490  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |       |                 |              |
|------------|-------|-----------------|--------------|
| Length     | 20 m  | Length (inches) | 787.402 inch |
| Net weight | 670 g |                 |              |

## Temperatures

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

## 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 |
|--------------------|-------------|

## 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

|                    |  |                               |     |
|--------------------|--|-------------------------------|-----|
| 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              |                               |     |

## 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 | 27-06-03-08 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Environmental Product Compliance**

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 67cf1078-beca-4687-860b-dc475a6ec24a |

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

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

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# Drawings

