

**IE-S1DS2VE0100T01T01-E****Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

**SPElink**<sup>®</sup>

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, SPE plug (IEC 63171-2) - IP20 socket contact straight, SPE plug (IEC 63171-2) - IP20 socket contact straight, T1-B, PVC, 10 m |
| Order No.  | <a href="#">2725850100</a>   |
| Type       | IE-S1DS2VE0100T01T01-E   |
| GTIN (EAN) | 4064675596264  |
| Qty.       | 1 items  |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E316369

## Dimensions and weights

|            |       |                 |               |
|------------|-------|-----------------|---------------|
| Length     | 10 m  | Length (inches) | 393.7008 inch |
| Net weight | 375 g |                 |               |

## Temperatures

|                          |                       |                |
|--------------------------|-----------------------|----------------|
| Storage temperature      | Operating temperature | -40 °C...80 °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 |
| PoE / PoE+                            | PoDL acc. to IEEE<br>802.3bu / cg |  |           |

## Standards

Connector standard IEC 63171-2

## 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<br>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<br>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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**Technical data**

**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 | SPE, IP20, female contact, straight, plug, Plastic, shielded | Plug left | SPE, IP20, female contact, straight, plug, Plastic, shielded |
|------------|--|-----------|--|

**Plug, left**

|           |  |
|-----------|--|
| Plug left | SPE, IP20, female contact, straight, plug, Plastic, shielded |
|-----------|--|

**Plug, right**

|            |  |
|------------|--|
| Plug right | SPE, IP20, female contact, straight, plug, Plastic, 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 |             |             |

**Detailed drawing**



**Dimensional drawing**

