

IE-S1DS2VE0010T01T01-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, SPE plug (IEC 63171-2) - IP20 socket contact straight, SPE plug (IEC 63171-2) - IP20 socket contact straight, PVC, 1 m |
| Order No. | 2725850010 |
| Type | IE-S1DS2VE0010T01T01-E |
| GTIN (EAN) | 4050118824544 |
| Qty. | 1 pc(s). |

IE-S1DS2VE0010T01T01-E
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data
Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Length | 1 m | Length (inches) | 39.37 inch |
| Net weight | 0.042 g | | |

Temperatures

| | |
|-----------------------|----------------|
| Operating temperature | -40 °C...80 °C |
|-----------------------|----------------|

Electrical properties

| | | | |
|--|-----------------------------------|---------------------------------------|-----------|
| 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 63171-2 |
|--------------------|-------------|

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 | 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 | SPE plug (IEC 63171-2) - IP20 socket contact straight |
|----------------|---|

Plug, right

| | | | |
|-----------------|---|-----------------------|------------|
| Connector right | SPE plug (IEC 63171-2) - IP20 socket contact straight | Housing main material | Elastollan |
|-----------------|---|-----------------------|------------|

Creation date March 26, 2022 4:31:58 AM CET

Catalogue status 11.03.2022 / We reserve the right to make technical changes.

Data sheet

IE-S1DS2VE0010T01T01-E

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

www.weidmueller.com

Technical data

plug

| | | | |
|----------------|---|-----------------|---|
| Connector left | SPE plug (IEC 63171-2) - IP20 socket contact straight | Connector right | SPE plug (IEC 63171-2) - IP20 socket contact straight |
|----------------|---|-----------------|---|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002599 | ETIM 7.0 | EC002599 |
| ETIM 8.0 | 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 | | |

Approvals

Approvals



Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |

Data sheet

IE-S1DS2VE0010T01T01-E

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

www.weidmueller.com

Drawings

Detailed drawing



Dimensional drawing



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Ethernet Cables / Networking Cables](#) category:

Click to view products by [Weidmuller](#) manufacturer:

Other Similar products are found below :

[73-6670-7](#) [73-6680-15](#) [73-7797-25](#) [MCJB2-10P6Q7-120](#) [84909-0204](#) [1200700174](#) [1200860368](#) [E16A06002M030](#) [E200102-009-S1](#)
[AX105346-EW](#) [MT14-187L](#) [17-103530](#) [ERWPAB3002M005](#) [190-038045-01](#) [NK5EPC18RDY](#) [NK5EPC18VLY](#) [NK5EPC18YLY](#)
[NK5EPC1GRY](#) [NK5EPC4Y](#) [NK5EPC6YLY](#) [NK5EPC8BLY](#) [NK5EPC9YLY](#) [1969343-6](#) [C501100010](#) [C501106002](#) [C501106007](#)
[C501106015](#) [C501106025](#) [C601102010](#) [C601104010](#) [C601106007](#) [C601106015](#) [2142758-2](#) [2168427-2](#) [CAT1106007](#) [21949-1](#) [2J1866A](#)
[RJF SFTP 5E 0500](#) [AX100351](#) [MN14CEC/ST](#) [C501100015](#) [C501106004](#) [C501106010](#) [C5F1108007](#) [C601104004](#) [C601106004](#)
[CA21106004](#) [CA21106010](#) [CA21106015](#) [CA21109007](#)