# IE-S1DS2VE0400TM1TM1-E

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
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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, M8 SPE ( IEC63171-5) - IP67 socket contact - straight, M8 SPE ( IEC63171-5) - IP67 socket contact - straight, T1-B, PVC, 40 m |
| Order No. | 2726050400 |
| Type | IE-S1DS2VE0400TM1TM1-E |
| GTIN (EAN) | 4064675597520 |
| Qty. | 1 pc(s). |

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## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Length | 40 m | Length (inches) | 1,574.803 inch |
| Net weight | 1,360 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 | | |

### Plug, left

| | |
|---|---|
| Connector left | M8 SPE ( IEC63171-5) - IP67 socket contact - straight |

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## Technical data

### Plug, right

| | | | |
|---|---|---|---|
| Connector right | M8 SPE ( IEC63171-5) - IP67 socket contact - straight | Housing main material | Elastollan |

### 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 | 27060308 |

### Environmental Product Compliance

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

### Approvals

| | |
|---|---|
| Approvals | CE |
| ROHS | Conform |

### Downloads

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

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## Drawings

