

## Network cable - VS-M12FSBP-OE-93E-LI/2,0 - 1405866

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 flush-type socket, rear/screw mounting with M16 thread on free conductor end, line, length 2 m



### Key commercial data

|                                      |                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                   |
| GTIN                                 | <br>4 046356 475976 |
| Weight per Piece (excluding packing) | 113.6 g                                                                                                |
| Custom tariff number                 | 85444290                                                                                               |
| Country of origin                    | Germany                                                                                                |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

#### General data

|                        |                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                   | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Rated current at 40°C  | 4 A                                                                                                                                                                                                                                                                                                                                                |
| Rated voltage          | 250 V                                                                                                                                                                                                                                                                                                                                              |
| Number of positions    | 4                                                                                                                                                                                                                                                                                                                                                  |
| Signal type/category   | Ethernet CAT5 (IEC 11801:2002), 100 Mbps<br>Ethernet CAT5e (TIA 568B:2001), 100 Mbps                                                                                                                                                                                                                                                               |
| Surge voltage category | II                                                                                                                                                                                                                                                                                                                                                 |
| Pollution degree       | 3                                                                                                                                                                                                                                                                                                                                                  |

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## Technical data

### Characteristics head 1

|                                          |                                                |
|------------------------------------------|------------------------------------------------|
| Head type                                | Flush-type socket Straight M12 SPEEDCON / IP67 |
| No. of positions (pin connector pattern) | 4                                              |
| Coding                                   | D (Data)                                       |

### Characteristics head 2

|           |                |
|-----------|----------------|
| Head type | Free cable end |
|-----------|----------------|

### Cable

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Cable type                                    | PUR ETHERNET 2x2 FLEX                              |
| Cable type (abbreviation)                     | 93E                                                |
| UL AWM style                                  | 20963 (80°C/30 V)                                  |
| Signal type/category                          | Ethernet CAT5 (IEC 11801:2002), 100 Mbps           |
|                                               | Ethernet CAT5e (TIA 568B:2001), 100 Mbps           |
| Cable structure                               | 2x2xAWG26/7; SF/UTP                                |
| Conductor cross section                       | 2x 2x 0.14 mm <sup>2</sup>                         |
| AWG signal line                               | 26                                                 |
| Conductor structure signal line               | 7x 0.16 mm                                         |
| Core diameter including insulation            | 0.98 mm                                            |
| Wire colors                                   | white/orange-orange, white/green-green             |
| Twisted pairs                                 | 2 cores to the pair                                |
| Overall twist                                 | Two pairs with two fillers to the core             |
| Shielding                                     | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering                       | 70 %                                               |
| External sheath, color                        | water blue RAL 5021                                |
| External cable diameter D                     | 6.4 mm ±0.2 mm                                     |
| Minimum bending radius, fixed installation    | 4 x D                                              |
| Minimum bending radius, flexible installation | 8 x D                                              |
| Tensile strength short-term/long-term         | ≤ 80N                                              |
| Cable weight                                  | 42 kg/km                                           |
| Outer sheath, material                        | PUR                                                |
| Material conductor insulation                 | Foamed PE                                          |
| Conductor material                            | Bare Cu litz wires                                 |
| Insulation resistance                         | ≥ 500 MΩ*km (at 20 °C)                             |
| Conductor resistance                          | ≤ 290000000 Ω/km (at 20 °C)                        |
| Working capacitance                           | 45 nF (At 1 kHz)                                   |
| Wave impedance                                | 100 Ω ±5 Ω (at 100 MHz)                            |
| Signal runtime                                | 5.3 ns/m                                           |
| Nominal voltage, cable                        | ≤ 100 V                                            |
|                                               | 300 V (Outer cable sheath)                         |
| Test voltage Core/Core                        | 700 V (50 Hz, 1 min.)                              |
| Test voltage Core/Shield                      | 700 V (50 Hz, 1 min.)                              |
| Flame resistance                              | IEC 60332-1-2                                      |

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### Technical data

#### Cable

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Halogen-free                            | According to IEC 60754-1                        |
| Resistance to oil                       | in accordance with DIN EN 60811-2-1             |
| Ambient temperature (operation)         | -40 °C ... 80 °C (cable, fixed installation)    |
|                                         | -20 °C ... 80 °C (cable, flexible installation) |
| Ambient temperature (installation)      | -20 °C ... 80 °C                                |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C                                |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

#### ETIM

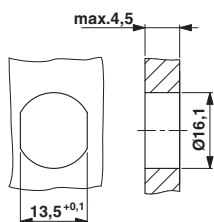
|          |          |
|----------|----------|
| ETIM 3.0 | EC001262 |
| ETIM 4.0 | EC001262 |
| ETIM 5.0 | EC000830 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 26121616 |

### Drawings

Dimensioned drawing



Cable cross section

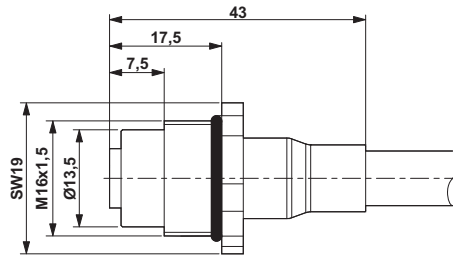


Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

PUR ETHERNET 2x2 FLEX [93E]

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Dimensioned drawing



M12 flush-type connector