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## Network cable - VS-M12FSBP-IP20-94B-LI/5,0 - 1412082

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (sea blue), M12 flush-type socket, rear/screw mounting with M16 thread to RJ45 connector/IP20, line, length 5 m



### Ethernet

#### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Weight per Piece (excluding packing) | 280.0 GRM |
| Custom tariff number                 | 85444210  |
| Country of origin                    | Germany   |

#### Technical data

##### Mechanical characteristics

|                             |                    |
|-----------------------------|--------------------|
| Number of positions         | 8                  |
| Shielded                    | Yes                |
| Insertion/withdrawal cycles | ≥ 100              |
| Cable diameter              | 6.40 mm            |
| Cable exit                  | Straight           |
| Cable structure             | 4x2xAWG26/7; S/FTP |
| Length of cable             | 5 m                |

##### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -25 °C ... 60 °C (cable, fixed installation)   |
|                                 | -5 °C ... 60 °C (cable, flexible installation) |

##### Material data

|   |                     |
|---|---------------------|
| Inflammability class according to UL 94 | V2                  |
| Outer sheath, material                  | PUR                 |
| External sheath, color                  | water blue RAL 5021 |

# Network cable - VS-M12FSBP-IP20-94B-LI/5,0 - 1412082

## Technical data

### Electrical characteristics

|   |  |
|---|--|
| Transmission characteristics (category) | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
|---|--|

### Line characteristics

|   |  |
|---|--|
| Cable type                                    | Ethernet   |
| Cable structure                               | 4x2xAWG26/7; S/FTP   |
| Conductor cross section                       | 4x 2x 0.14 mm <sup>2</sup>   |
| AWG signal line                               | 26   |
| Conductor structure signal line               | 7x 0.16 mm   |
| Core diameter including insulation            | 1.04 mm  |
| Thickness, insulation                         | 0.28 mm (signal line)  |
|   | 0.65 mm (Outer cable sheath)   |
| External cable diameter                       | 6.4 mm ± 0.2 mm  |
| Wire colors                                   | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| External sheath, color                        | water blue RAL 5021  |
| Transmission medium                           | Copper   |
| Insulation resistance                         | ≥ 500 MΩ*km (at 20 °C)   |
| Conductor resistance                          | ≤ 290 Ω/km (at 20 °C)  |
| Transmission characteristics (category)       | CAT6 <sub>A</sub>  |
| Wave impedance                                | 100 Ω ± 5 Ω (At 100 MHz)   |
| Signal runtime                                | 5.3 ns/m   |
| Shield attenuation                            | ≥ 80 dB (at 30 ... 100 MHz)  |
| Nominal voltage, cable                        | ≤ 100 V (at 20 °C)   |
| Test voltage Core/Core                        | 700 V (50 Hz, 1 min.)  |
| Test voltage Core/Shield                      | 700 V (50 Hz, 1 min.)  |
| Twisted pairs                                 | 2 cores to the pair  |
| Type of pair shielding                        | Aluminum-lined polyester foil  |
| Overall twist                                 | 4 pairs  |
| Shielding                                     | Tinned copper braided shield   |
| Optical shield covering                       | 70 %   |
| Outer sheath, material                        | PUR  |
| Material conductor insulation                 | PE   |
| Conductor material                            | Bare Cu litz wires   |
| Cable weight                                  | 43 kg/km   |
| Smallest bending radius, fixed installation   | 25.6 mm  |
| Smallest bending radius, movable installation | 51.2 mm  |
| Tensile strength short-term/long-term         | ≤ 100 N  |
| Flame resistance                              | IEC 60332-1-2  |

## Network cable - VS-M12FSBP-IP20-94B-LI/5,0 - 1412082

### Technical data

#### Line characteristics

|                                 |   |
|---------------------------------|---|
| Halogen-free                    | According to IEC 60754-1                        |
| Resistance to oil               | in accordance with DIN EN 60811-2-1             |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation)    |
|                                 | -10 °C ... 50 °C (cable, flexible installation) |

### 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 | EC000830 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC000830 |

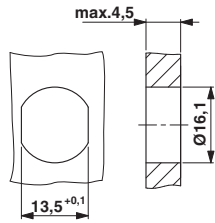
#### UNSPSC

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

### Drawings

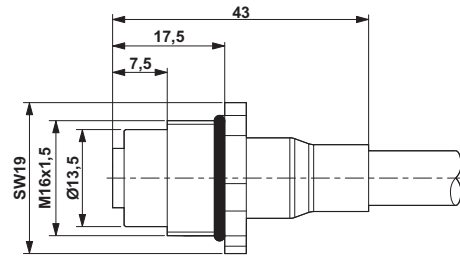
# Network cable - VS-M12FSBP-IP20-94B-LI/5,0 - 1412082

Dimensioned drawing



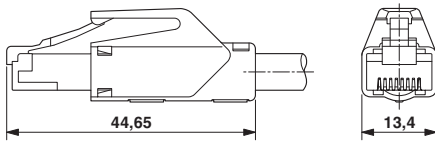
Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

Dimensioned drawing



M12 flush-type connector

Dimensioned drawing



Circuit diagram

