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## Network cable - VS-PPC/PL-OE-94F-LI/5,0 - 1415403

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Assembled Ethernet cable, CAT6, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/ IP67 push-pull plastic housing on free conductor end, line, length 5 m



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 pc       |
| Weight per Piece (excluding packing) | 222.22 GRM |
| Custom tariff number                 | 85444210   |
| Country of origin                    | Poland     |

### Technical data

#### Mechanical characteristics

|                             |                     |
|-----------------------------|---------------------|
| Standards/specifications    | IEC PAS 61076-3-117 |
| Number of positions         | 8                   |
| Number of slots             | 1                   |
| Connection profile          | RJ45 8(8)           |
| Locking type                | Push Pull           |
| Shielded                    | Yes                 |
| Insertion/withdrawal cycles | ≥ 200               |
| Cable diameter              | 6.70 mm             |
| Cable exit                  | Straight            |
| Cable structure             | 4x2xAWG26/7; S/FTP  |
| Length of cable             | 5 m                 |
| Color                       | black               |

#### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Ambient temperature (operation) | -25 °C ... 60 °C (cable, fixed installation)    |
|                                 | -10 °C ... 50 °C (cable, flexible installation) |

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## Network cable - VS-PPC/PL-OE-94F-LI/5,0 - 1415403

### Technical data

#### Ambient conditions

|                      |         |
|----------------------|---------|
| Degree of protection | IP65/67 |
|----------------------|---------|

#### Material data

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

#### Electrical characteristics

|   |      |
|---|------|
| Transmission characteristics (category) | CAT6 |
|---|------|

#### 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                    | ≤ 290000000 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  |

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## Network cable - VS-PPC/PL-OE-94F-LI/5,0 - 1415403

### Technical data

#### Line characteristics

|   |   |
|---|---|
| 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                                   |
| 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

<https://www.phoenixcontact.com/us/products/1415403>



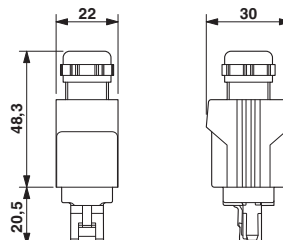
## Network cable - VS-PPC/PL-OE-94F-LI/5,0 - 1415403

Cable cross section



Ethernet [94F]

Dimensioned drawing



Push-pull RJ45 connector IP65/67