

## Patch cable - VS-06-2X2X26C7/7-67/SD/ 2,0 - 1654167

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Assembled FireWire cable, shielded, color: RAL 5021 (water blue), PUR outer sheath, FireWire/IP67 on FireWire/standard, length: 2 m



### Key commercial data

|                                      |  |
|--------------------------------------|--|
| Packing unit                         | 1 pc   |
| GTIN                                 | <br>4 017918 970499 |
| Weight per Piece (excluding packing) | 172.0 GRM  |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Germany  |

### Technical data

#### Mechanical characteristics

|                             |                                 |
|-----------------------------|---------------------------------|
| Number of positions         | 6                               |
| Shielded                    | Yes                             |
| Insertion/withdrawal cycles | ≥ 1000                          |
| Cable diameter              | 6.70 mm                         |
| Cable structure             | 2x2xAWG26/7 + 2xAWG20/19; S/FTP |
| Length of cable             | 2 m                             |

#### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Ambient temperature (operation) | -20 °C ... 60 °C (cable, fixed installation)  |
|                                 | 0 °C ... 50 °C (cable, flexible installation) |
|                                 | (Plug / socket)                               |
| Degree of protection            | IP67/IP20                                     |

#### Material data

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### Technical data

#### Material data

|                        |                     |
|------------------------|---------------------|
| Housing material       | PA                  |
| Sealing material       | FPM                 |
| Outer sheath, material | PUR                 |
| External sheath, color | water blue RAL 5021 |

#### Electrical characteristics

|   |                     |
|---|---------------------|
| Rated voltage (III/3)                   | 125 V               |
| Rated current                           | 1 A                 |
| Transmission characteristics (category) | FireWire (400 Mbps) |

#### Line characteristics

|   |   |
|---|---|
| Cable type                              | FireWire  |
| Cable structure                         | 2x2xAWG26/7 + 2xAWG20/19; S/FTP   |
| Conductor cross section                 | 2x 2x 0.14 mm <sup>2</sup> (signal line)<br>2x 0.5 mm <sup>2</sup> (Power supply) |
| AWG signal line                         | 26  |
| Conductor structure signal line         | 7x 0.15 mm  |
| AWG power supply                        | 20  |
| Conductor structure, voltage supply     | 19x 0.20 mm   |
| Core diameter including insulation      | ≤ 1.05 mm (signal line)<br>nom. 1.4 mm (Power supply)                             |
| External cable diameter                 | 6.7 mm  |
| Wire colors                             | White-blue, white-orange, white, black  |
| External sheath, color                  | water blue RAL 5021   |
| Insulation resistance                   | 5 GΩ*km   |
| Conductor resistance                    | 150 Ω/km  |
| Transmission characteristics (category) | CAT7, for USB 2.0 (480 Mbps)  |
| Working capacitance                     | 42 pF (per meter)   |
| Wave impedance                          | 100 Ω ±5 % (at 100 MHz)   |
| Signal speed                            | 0.72 c  |
| Signal runtime                          | 4.6 ns/m  |
| Shield attenuation                      | 60 dB (Up to 1000 MHz)  |
| Interference suppression                | 90 dB (Up to 1000 MHz)  |
| Coupling resistance                     | 5.00 mΩ/m (At 10 MHz)   |
| Nominal voltage, cable                  | ≤ 125 V   |
| Test voltage, cable                     | 1000 V  |
| Twisted pairs                           | 2 cores to the pair   |
| Type of pair shielding                  | Aluminum-lined polyester foil   |

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### Technical data

#### Line characteristics

|   |   |
|---|---|
| Overall twist                                 | Two pairs and two power supply wires to the core                    |
| Shielding                                     | Tinned copper braided shield  |
| Outer sheath, material                        | PUR   |
| Material conductor insulation                 | Cell PE (signal line)   |
|   | PVC (Power supply)  |
| Conductor material                            | Bare Cu litz wires  |
| Cable weight                                  | 59 kg/km  |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 5 x D   |
| Tensile strength short-term/long-term         | ≤ 30 N  |
| Special properties                            | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                              | complying with IEC 60332-2-2  |
| Resistance to oil                             | according to EN 60811-2-1   |
| Other resistance                              | Microbe resistance as per DIN VDE 0282                              |
|   | Hydrolysis resistance as per DIN 53504                              |
| Ambient temperature (operation)               | -40 °C ... 70 °C (cable, fixed installation)                        |
|   | -10 °C ... 50 °C (cable, flexible installation)                     |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211923 |
| UNSPSC 7.0901 | 39121522 |

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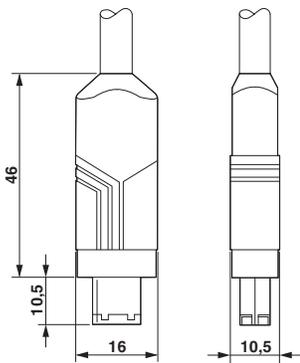
## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 11    | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2  | 39121522 |

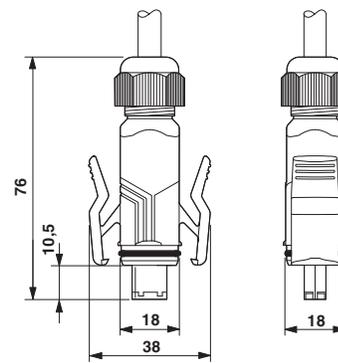
## Drawings

Dimensioned drawing



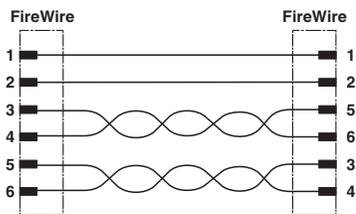
FireWire connector, standard

Dimensioned drawing

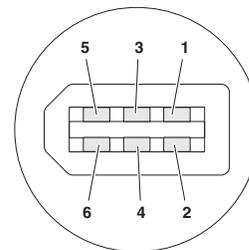


FireWire connector, IP67

Circuit diagram



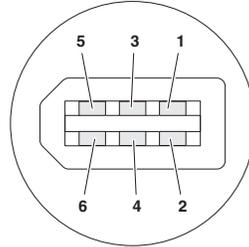
Schematic diagram



Pin assignment plug FireWire

## Patch cable - VS-06-2X2X26C7/7-67/SD/ 2,0 - 1654167

Schematic diagram



Pin assignment plug FireWire