

VS-06-2X2X26C7/7-67/67/ 1,0 - Patch cable



1654002

<https://www.phoenixcontact.com/us/products/1654002>

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Assembled FireWire cable, shielded, color: RAL 5021 (water blue), PUR outer sheath, FireWire/IP67 on FireWire/IP67, length: 1 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1654002 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | NULL |
| Product key | ABNDBA |
| GTIN | 4017918970338 |
| Weight per piece (including packing) | 124.4 g |
| Weight per piece (excluding packing) | 124.4 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Number of positions | 6 |
| Shielded | yes |

Insulation characteristics

| | |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

Interfaces

| | |
|----------------------|----------|
| Signal type/category | FireWire |
|----------------------|----------|

Electrical properties

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

Mechanical properties

Mechanical data

| | |
|-----------------------------|--------|
| Insertion/withdrawal cycles | ≥ 1000 |
|-----------------------------|--------|

Material specifications

| | |
|------------------------|-----|
| Seal material | FPM |
| Housing material | PA |
| Outer sheath, material | PUR |

Connector

Connection 1

| | |
|----------------------|------------------------|
| Type | Plug straight FireWire |
| Degree of protection | IP67 |

Connection 2

| | |
|----------------------|------------------------|
| Type | Plug straight FireWire |
| Degree of protection | IP67 |

Cable/line

FireWire [980]

| | |
|---------------------------|----------|
| Shielded | yes |
| Cable weight | 59 kg/km |
| Cable type | FireWire |
| Cable type (abbreviation) | 980 |

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| | |
|---|---|
| Signal type/category | USB CAT7, 480 Mbps |
| | FireWire CAT7, 400 Mbps |
| Cable structure | 2x2xAWG26/7 + 2xAWG20/19, S/FTP |
| External cable diameter | 6.70 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Conductor structure signal line | 7x 0.15 mm |
| AWG signal line | 26 |
| Conductor structure, voltage supply | 19x 0.20 mm |
| Conductor cross-section | 2x 2x 0.14 mm ² (Signal line) |
| AWG power supply | 20 |
| Material wire insulation | Cell PE (Signal line) |
| | PVC (Power supply) |
| Wire diameter incl. insulation | ≤ 1.05 mm (Signal line) |
| | nom. 1.4 mm (Power supply) |
| Single wire, color | white-blue, white-orange, white, black |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | Two pairs and two power supply wires to the core |
| Shielding | Tinned copper braided shield |
| Nominal voltage, cable | ≤ 125 V |
| Test voltage, cable | 1000 V |
| Cable resistance | 150 Ω/km |
| Cable insulation resistance | 5 GΩ*km |
| Coupling resistance | 5.00 mΩ/m (at 10 MHz) |
| Wave impedance | 100 Ω ±5 % (at 100 MHz) |
| Working capacitance | 42 pF (per meter) |
| Signal runtime | 4.6 ns/m |
| Signal speed | 0.72 c |
| Interference suppression | 90.00 dB (up to 1000 MHz) |
| Tensile strength | ≤ 30 N |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 5 x D |
| Shield attenuation | 60.00 dB (up to 1000 MHz) |
| Resistance to oil | in accordance with EN 60811-2-1 |
| Flame resistance | complying with IEC 60332-2-2 |
| Other resistance | Microbe resistance as per DIN VDE 0282 |
| | Hydrolysis resistance as per DIN 53504 |
| Special properties | Free of substances which would hinder coating with paint or varnish |
| Ambient temperature (operation) | -10 °C ... 50 °C (Cable, flexible installation) |
| | -40 °C ... 70 °C (cable, fixed installation) |

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Environmental and real-life conditions

Ambient conditions

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

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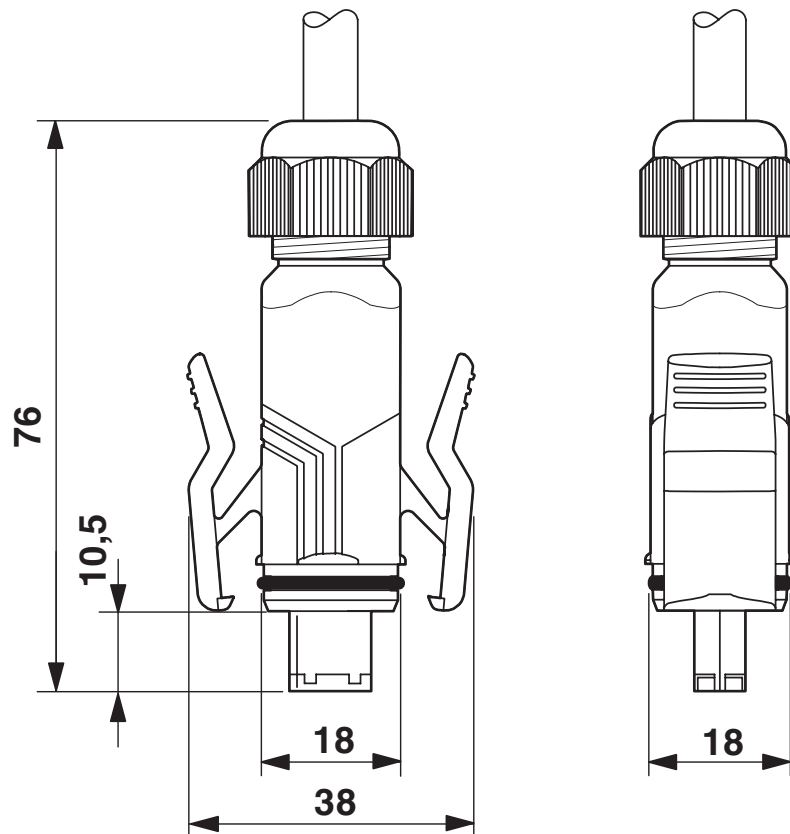
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Drawings

Dimensional drawing



FireWire connector, IP67

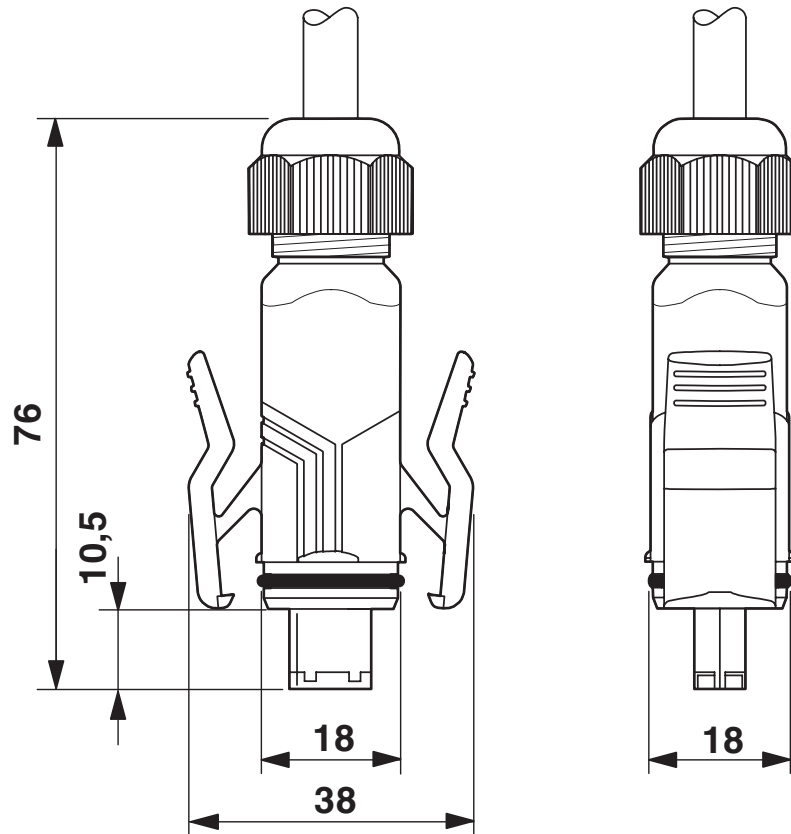
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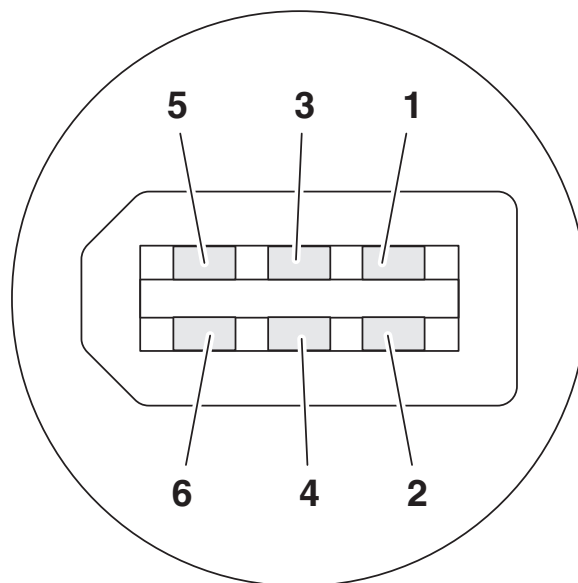


Dimensional drawing



FireWire connector, IP67

Schematic diagram



Pin assignment plug FireWire

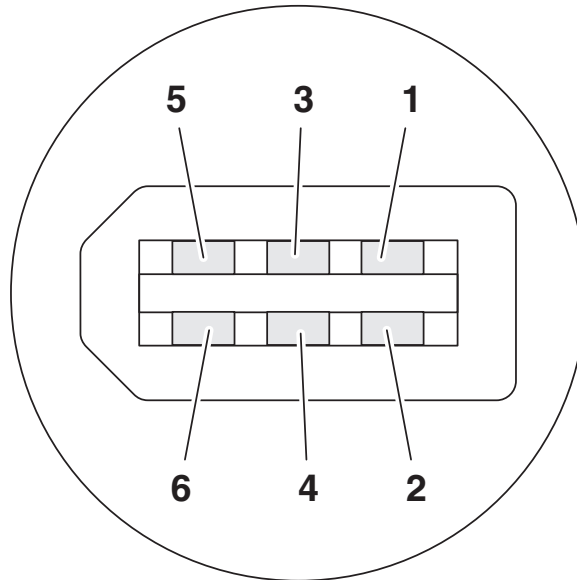
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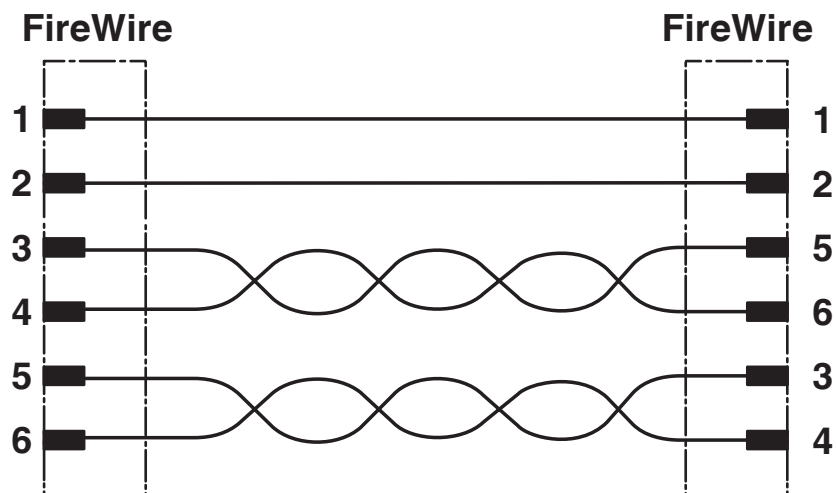
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Schematic diagram



Pin assignment plug FireWire

Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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