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## Patch cable - VS-04-2X2X26C7/7-67A/SDB/2,0 - 1653896



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

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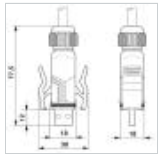
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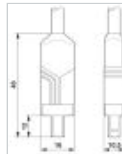
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### Drawings



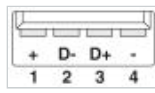
Dimensional drawing  
USB connector, type A, IP67



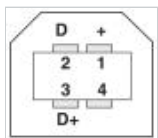
Dimensional drawing  
USB connector, type B, standard



Circuit diagram



Schematic diagram  
Pin assignment plug USB, type A



Schematic diagram  
Plug pin assignment plug USB, type B

### Dimensions

**Length of cable**

2 m

### Ambient conditions

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| <b>Degree of protection</b>            | IP20                                         |
|                                        | IP67                                         |
| <b>Ambient temperature (operation)</b> | -20 °C ... 60 °C (cable, fixed installation) |

## General data

|                                              |           |
|----------------------------------------------|-----------|
| <b>Number of positions</b>                   | 4         |
| <b>Signal type/category</b>                  | USB 2.0   |
| <b>Degree of pollution</b>                   | 2         |
|                                              | 2         |
| <b>Alternative short product description</b> | USB cable |
| <b>Rated voltage (III/3)</b>                 | 125 V     |

## Characteristics head 1

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| <b>Head type</b>                                | Plug straight USB type A |
| <b>No. of positions (pin connector pattern)</b> | 4                        |

## Characteristics head 2

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| <b>Head type</b>                                | Plug straight USB type B |
| <b>No. of positions (pin connector pattern)</b> | 4                        |

## Cable

|                                                      |                                                  |
|------------------------------------------------------|--------------------------------------------------|
| <b>Cable type</b>                                    | FireWire                                         |
| <b>Cable type (abbreviation)</b>                     | 980                                              |
| <b>Signal type/category</b>                          | USB CAT7, 480 Mbps                               |
|                                                      | FireWire CAT7, 400 Mbps                          |
| <b>Cable structure</b>                               | 2x2xAWG26/7 + 2xAWG20/19; S/FTP                  |
| <b>Conductor cross section</b>                       | 2x 2x 0.14 mm <sup>2</sup> (Signal line)         |
|                                                      | 2x 0.5 mm <sup>2</sup> (Power supply)            |
| <b>AWG signal line</b>                               | 26                                               |
| <b>AWG power supply</b>                              | 20                                               |
| <b>Conductor structure signal line</b>               | 7x 0.15 mm                                       |
| <b>Conductor structure, voltage supply</b>           | 19x 0.20 mm                                      |
| <b>Core diameter including insulation</b>            | ≤ 1.05 mm (Signal line)                          |
|                                                      | nom. 1.4 mm (Power supply)                       |
| <b>Wire colors</b>                                   | White-blue, white-orange, white, black           |
| <b>Twisted pairs</b>                                 | 2 cores to the pair                              |
| <b>Type of pair shielding</b>                        | Aluminum-lined polyester foil                    |
| <b>Overall twist</b>                                 | Two pairs and two power supply wires to the core |
| <b>Shielding</b>                                     | Tinned copper braided shield                     |
| <b>External sheath, color</b>                        | water blue RAL 5021                              |
| <b>External cable diameter D</b>                     | 6.7 mm                                           |
| <b>Minimum bending radius, fixed installation</b>    | 5 x D                                            |
| <b>Minimum bending radius, flexible installation</b> | 5 x D                                            |

|                                              |                                                                     |
|----------------------------------------------|---------------------------------------------------------------------|
| <b>Tensile strength short-term/long-term</b> | ≤ 30 N                                                              |
| <b>Cable weight</b>                          | 59 kg/km                                                            |
| <b>Outer sheath, material</b>                | PUR                                                                 |
| <b>Material conductor insulation</b>         | Cell PE (Signal line)                                               |
|                                              | PVC (Power supply)                                                  |
| <b>Conductor material</b>                    | Bare Cu litz wires                                                  |
| <b>Insulation resistance</b>                 | 5 GΩ*km                                                             |
| <b>Conductor resistance</b>                  | 150 Ω/km                                                            |
| <b>Working capacitance</b>                   | 42 pF (per meter)                                                   |
| <b>Wave impedance</b>                        | 100 Ω ±5 % (at 100 MHz)                                             |
| <b>Signal speed</b>                          | 0.72 c                                                              |
| <b>Signal runtime</b>                        | 4.6 ns/m                                                            |
| <b>Shield attenuation</b>                    | 60 dB (Up to 1000 MHz)                                              |
| <b>Interference suppression</b>              | 90 dB (Up to 1000 MHz)                                              |
| <b>Coupling resistance</b>                   | 5.00 mΩ/m (At 10 MHz)                                               |
| <b>Nominal voltage, cable</b>                | ≤ 125 V                                                             |
| <b>Test voltage, cable</b>                   | 1000 V                                                              |
| <b>Special properties</b>                    | Free of substances which would hinder coating with paint or varnish |
| <b>Flame resistance</b>                      | complying with IEC 60332-2-2                                        |
| <b>Resistance to oil</b>                     | according to EN 60811-2-1                                           |
| <b>Other resistance</b>                      | Microbe resistance as per DIN VDE 0282                              |
|                                              | Hydrolysis resistance as per DIN 53504                              |
| <b>Ambient temperature (operation)</b>       | -40 °C ... 70 °C (cable, fixed installation)                        |
|                                              | -10 °C ... 50 °C (cable, flexible installation)                     |

## Environmental Product Compliance

|                   |                                                         |
|-------------------|---------------------------------------------------------|
| <b>China RoHS</b> | Environmentally friendly use period: unlimited = EFUP-e |
|                   | No hazardous substances above threshold values          |

## Classifications

### eCl@ss

|                   |          |
|-------------------|----------|
| <b>eCl@ss 4.0</b> | 27140816 |
| <b>eCl@ss 4.1</b> | 27260701 |
| <b>eCl@ss 5.0</b> | 27260701 |
| <b>eCl@ss 5.1</b> | 27260701 |
| <b>eCl@ss 6.0</b> | 27279218 |
| <b>eCl@ss 7.0</b> | 27279218 |
| <b>eCl@ss 8.0</b> | 27060390 |
| <b>eCl@ss 9.0</b> | 27060390 |

## ETIM

|                 |          |
|-----------------|----------|
| <b>ETIM 2.0</b> | EC000830 |
|-----------------|----------|

|                 |          |
|-----------------|----------|
| <b>ETIM 3.0</b> | EC001855 |
| <b>ETIM 4.0</b> | EC001855 |
| <b>ETIM 5.0</b> | EC001408 |
| <b>ETIM 6.0</b> | EC001408 |

## UNSPSC

|                      |          |
|----------------------|----------|
| <b>UNSPSC 6.01</b>   | 31261501 |
| <b>UNSPSC 7.0901</b> | 31261501 |
| <b>UNSPSC 11</b>     | 31261501 |
| <b>UNSPSC 12.01</b>  | 31261501 |
| <b>UNSPSC 13.2</b>   | 26121604 |

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