

# VS-CAT6-4X2X26 AWG/7/100 - Installation cable



1658891

<https://www.phoenixcontact.com/us/products/1658891>

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CAT6-S/FTP cable, 4 x 2 x 26 AWG, stranded, (7-wire) shielded, outer sheath: Halogen-free PUR, outside diameter 6.7 mm, RAL 5021 (water blue), cable ring 100 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1658891                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF11                           |
| Product key                          | AF1LFA                         |
| GTIN                                 | 4046356166140                  |
| Weight per piece (including packing) | 4,451.4 g                      |
| Weight per piece (excluding packing) | 4,451.4 g                      |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Number of positions | 8                       |
| Shielded            | yes                     |


### Electrical properties

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

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 100 m |
|--------------|-------|

### Ethernet [94F]

|                                 |   |
|---------------------------------|---|
| Dimensional drawing             |  |
| Cable weight                    | 43 kg/km  |
| Number of positions             | 8   |
| Shielded                        | yes   |
| Cable type                      | Ethernet [94F]  |
| Conductor structure             | 4x2xAWG26/7; S/FTP  |
| Signal runtime                  | 5.3 ns/m  |
| Conductor structure signal line | 7x 0.16 mm  |
| AWG signal line                 | 26  |
| Conductor cross-section         | 4x 2x 0.14 mm <sup>2</sup>  |
| Wire diameter incl. insulation  | 1.04 mm   |
| External cable diameter         | 6.40 mm ±0.2 mm   |
| Outer sheath, material          | PUR   |
| External sheath, color          | water blue RAL 5021   |
| Conductor material              | Bare Cu litz wires  |
| Material wire insulation        | PE  |
| Single wire, color              | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown          |
| Thickness, insulation           | 0.28 mm (Signal line)<br>0.65 mm (Outer cable sheath)                               |
| Twisted pairs                   | 2 cores to the pair   |
| Type of pair shielding          | Aluminum-lined polyester foil   |
| Overall twist                   | 4 pairs   |

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|   |   |
|---|---|
| Optical shield covering                       | 70 %  |
| Max. conductor resistance                     | ≤ 290 Ω/km (at 20 °C)   |
| Insulation resistance                         | ≥ 500 MΩ*km (at 20 °C)  |
| Wave impedance                                | 100 Ω ±5 Ω (at 100 MHz)   |
| Nominal voltage, cable                        | ≤ 100 V (at 20 °C)  |
| Test voltage Core/Core                        | 700 V (50 Hz, 1 min.)   |
| Test voltage Core/Shield                      | 700.00 V (50 Hz, 1 min.)  |
| Smallest bending radius, fixed installation   | 25.6 mm   |
| Smallest bending radius, movable installation | 51.2 mm   |
| Tensile strength                              | ≤ 100 N   |
| Shield attenuation                            | ≥ 80.00 dB (at 30 ... 100 MHz)  |
| Halogen-free                                  | according to IEC 60754-1  |
| Flame resistance                              | IEC 60332-1-2   |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1   |
| Ambient temperature (operation)               | -40 °C ... 70 °C (cable, fixed installation)<br>-10 °C ... 50 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Ambient temperature (operation) (Cable, fixed installation)    | -20 °C ... 60 °C (cable, fixed installation)  |
| Ambient temperature (operation) (Cable, flexible installation) | 0 °C ... 50 °C (Cable, flexible installation) |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

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## Environmental product compliance

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

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

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