

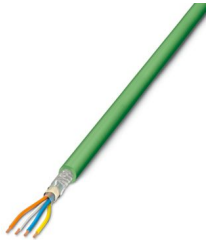
# VS-PN-CABLE-934-C/100 - Network cable



1657397

<https://www.phoenixcontact.com/us/products/1657397>

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PROFINET cable type C, CAT5e-SF/Q cable, 1 x 4 x 22 AWG, highly stranded (7-wire), shielded, outer sheath: PUR, outside diameter 6.7 mm, RAL 6018 (yellow-green), cable ring: 100 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1657397                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF11                           |
| Product key                          | AF1LFA                         |
| GTIN                                 | 4046356098465                  |
| Weight per piece (including packing) | 6,317 g                        |
| Weight per piece (excluding packing) | 6,317 g                        |
| Customs tariff number                | 85445190                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|         |   |
|---------|---|
| General | This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 9.1.1 Balanced Cables (Type A,B,C) |
|---------|---|

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable by the meter |
| Sensor type         | PROFINET                |
| Number of positions | 4                       |
| Shielded            | yes                     |

### Electrical properties

|   |                       |
|---|-----------------------|
| Rated voltage (III/3)                   | 125 V                 |
| Transmission medium                     | Copper                |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |


### Interfaces

|                      |                                |
|----------------------|--------------------------------|
| Signal type/category | PROFINET CAT5 (IEC 11801:2002) |
|----------------------|--------------------------------|

### Cable/line

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

#### PROFINET drag chain CAT5 [93C]

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Cable weight                    | 61 kg/km   |
| Shielded                        | yes  |
| Cable type                      | PROFINET drag chain CAT5 [93C]   |
| Conductor structure             | 1x4xAWG22/7, SF/TQ   |
| Signal runtime                  | 5.3 ns/m   |
| Signal speed                    | 0.66 c   |
| Conductor structure signal line | 7x 0.25 mm   |
| AWG signal line                 | 22   |
| Conductor cross-section         | 4x 0.34 mm <sup>2</sup>  |
| Wire diameter incl. insulation  | 1.5 mm   |
| External cable diameter         | 6.50 mm ±0.2 mm  |

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|   |   |
|---|---|
| Outer sheath, material                        | PUR   |
| External sheath, color                        | green RAL 6018  |
| Conductor material                            | Tin-plated Cu litz wires  |
| Material wire insulation                      | PE  |
| Single wire, color                            | white, yellow, blue, orange   |
| Thickness, outer sheath                       | approx. 0.90 mm   |
| Overall twist                                 | Star quad   |
| Optical shield covering                       | 85 %  |
| Insulation resistance                         | ≥ 500 MΩ*km   |
| Coupling resistance                           | ≤ 20.00 mΩ/m (at 10 MHz)  |
| Loop resistance                               | ≤ 120.00 Ω/km   |
| Wave impedance                                | 100 Ω ±15 Ω (at 1 ... 100 MHz)  |
| Nominal voltage, cable                        | 600 V (UL rating)   |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)  |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)   |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 7.5 x D   |
| Smallest bending radius, fixed installation   | 33 mm   |
| Smallest bending radius, movable installation | 49 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 3000000, Bending radius: 100 mm, Traversing path: 10 m, Traversing rate: 4 m/s, Acceleration: 4 m/s <sup>2</sup> |
| Tensile strength                              | ≤ 150 N   |
| Dynamic load capacity (torsion)               | Torsion: ±30 °/m  |
| Near end crosstalk attenuation (NEXT)         | 80 dB (with 1 MHz)  |
|   | 76 dB (at 4 MHz)  |
|   | 70 dB (at 10 MHz)   |
|   | 65 dB (at 16 MHz)   |
|   | 63 dB (at 20 MHz)   |
|   | 60 dB (at 31.25 MHz)  |
|   | 55 dB (at 62.5 MHz)   |
|   | 50 dB (at 100 MHz)  |
| Shield attenuation                            | 2.1 dB (with 1 MHz)   |
|   | 4 dB (at 4 MHz)   |
|   | 6.3 dB (at 10 MHz)  |
|   | 8 dB (at 16 MHz)  |
|   | 9 dB (at 20 MHz)  |
|   | 11.4 dB (at 31.25 MHz)  |
|   | 16.5 dB (at 62.5 MHz)   |
|   | 21.3 dB (at 100 MHz)  |
| Halogen-free                                  | yes   |
| Flame resistance                              | according to IEC 60332-1-2  |
|   | in accordance with UN ECE-R 118.03  |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1   |

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|                                    |   |
|------------------------------------|---|
| Other resistance                   | UV resistant  |
| Special properties                 | Electrical properties in accordance with EN 50288-2-2 |
| Ambient temperature (operation)    | -40 °C ... 70 °C (cable, fixed installation)          |
|                                    | -40 °C ... 70 °C (Cable, flexible installation)       |
| Ambient temperature (installation) | -20 °C ... 60 °C                                      |

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 70 °C (Cable, flexible installation) |
|---|---|

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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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