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## Network cable - VS-OE-OE-936-100,0 - 1416570

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Network cable, PROFINET CAT5 (100 Mbps), 4-position, PE-X halogen-free, black RAL 9005, shielded, free cable end, on free cable end, Cable length: 100 m, For railway applications



### Key Commercial Data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 STK    |
| Custom tariff number | 85444290 |
| Country of origin    | Germany  |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 100 m |
|-----------------|-------|

#### General data

|                      |  |
|----------------------|--|
| Number of positions  | 4  |
| Signal type/category | PROFINET CAT5 (IEC 11801:2002), 100 Mbps |

#### Cable

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Cable type                         | PROFINET railway applications       |
| Cable type (abbreviation)          | 936                                 |
| Signal type/category               | PROFINET CAT5 (IEC 11801), 100 Mbps |
| Cable structure                    | 1x4xAWG22/7; SF/TQ                  |
| Conductor cross section            | 4x 0.34 mm <sup>2</sup>             |
| AWG signal line                    | 22                                  |
| Conductor structure signal line    | 7x 0.25 mm                          |
| Core diameter including insulation | 1.95 mm                             |
| Wire colors                        | white-blue, orange-yellow           |

## Network cable - VS-OE-OE-936-100,0 - 1416570

### Technical data

#### Cable

|   |  |
|---|--|
| Overall twist                                 | Star quad  |
| Shielding                                     | Plastic-coated aluminum foil, tinned copper braided shield |
| Optical shield covering                       | 100 %  |
| External sheath, color                        | black RAL 9005   |
| Outer sheath thickness                        | ≥ 0.8 mm   |
| External cable diameter D                     | 7.25 mm ±0,3 mm  |
| Minimum bending radius, fixed installation    | 6 x D  |
| Minimum bending radius, flexible installation | 10 x D   |
| Cable weight                                  | 81 g/m   |
| Outer sheath, material                        | PE-X   |
| Material conductor insulation                 | PE-X   |
| Conductor material                            | silver-plated Cu litz wires                                |
| Conductor resistance                          | ≤ 54.4 Ω/km  |
| Working capacitance                           | ≤ 65 pF (core-core)  |
|   | ≤ 100 pF (core-shield)                                     |
| Wave impedance                                | 100 Ω ±5 Ω (f = 100 MHz)                                   |
| Signal speed                                  | 66 c   |
| Shield attenuation                            | 40 dB (30 MHz ≤ f ≤ 100 MHz)                               |
| Coupling resistance                           | 200.00 mΩ/m (f ≤ 30 MHz)                                   |
| Nominal voltage, cable                        | 300 V AC   |
| Test voltage, cable                           | 2000 V AC (50 Hz, 5 minutes)                               |
| Fire protection in rail vehicles              | BS 6853 (Category Ia, Ib, II)                              |
|   | GM/RT 2130 (Category Ia, Ib, II)                           |
|   | EN 45545 (Risk level HL1 - HL3)                            |
|   | DIN 5510 (Fire protection level 1, 2, 3, 4)                |
|   | NF F16-101 (Category A1, A2, B)                            |
|   | NF F16-101 (Class C/F0)                                    |
|   | NFPA 130   |
|   | UNI CEI 11170 (Risk level LR1 - LR4)                       |
| Flame resistance                              | EN 60332-1-2   |
|   | EN 50266   |
|   | EN 60332-3-25  |
|   | NF C32-070, 2.1  |
|   | NF C32-070, 2.2  |
|   | UL 1685, 12 (FT4)  |
|   | in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)       |
| Halogen-free                                  | According to EN 50267-2-1                                  |

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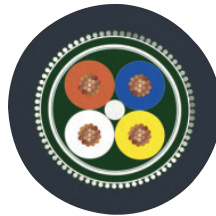
### Technical data

#### Cable

|                                 |  |
|---------------------------------|--|
| Resistance to oil               | according to IRM 902, 72 h at 100 °C                     |
| Other resistance                | Resistance to fuels according to IRM 903, 168 h at 70 °C |
| Concentration of fumes          | BS 6853 D.8.7  |
|                                 | EN 61034-2   |
|                                 | UL 1685, 12 (FT4)  |
| Fume corrosiveness              | EN 50267-2-2   |
| Fume toxicity                   | BS 6853 B.1  |
|                                 | EN 50305, 9.2  |
| Ambient temperature (operation) | -50 °C ... 90 °C (cable, fixed installation)             |
|                                 | -40 °C ... 90 °C (cable, flexible installation)          |

### Drawings

Cable cross section



PROFINET railway applications [936]

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060307 |
| eCl@ss 4.1 | 27060307 |
| eCl@ss 5.0 | 27060307 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |
| eCl@ss 9.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC000830 |



## Network cable - VS-OE-OE-936-100,0 - 1416570

### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC000830 |
|----------|----------|

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31261501 |