

## Bus system cable - VS-PPC/ME-IP20-93K-LI/5,0 - 1419176

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Sercos III cable, shielded, star quad, AWG 22 stranded (7-wire), RAL 3020 (traffic red), RJ45 connector/IP67 push-pull, metal on RJ45 connector/IP20, length: 5 m



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444210 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### General data

|                        |            |
|------------------------|------------|
| Number of positions    | 4          |
| Signal type/category   | Sercos III |
| Surge voltage category | I          |
| Pollution degree       | 2          |

#### Characteristics head 1

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Head type                                | Plug Straight RJ45 Push Pull / IP67 |
| No. of positions (pin connector pattern) | 4                                   |
| Material (component)                     | Metal                               |

#### Characteristics head 2

|                                          |                           |
|------------------------------------------|---------------------------|
| Head type                                | Plug Straight RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4                         |
| Material (component)                     | Plastic                   |

#### Cable

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## Technical data

### Cable

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Cable type                                    | Sercos III                                      |
| Cable type (abbreviation)                     | 93K                                             |
| UL AWM style                                  | 21694 (60°C / 600 V)                            |
| Signal type/category                          | Sercos III CAT5 (IEC 11801:2002), 100 Mbps      |
|                                               | Sercos III CAT5e (TIA 568B:2001), 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            | approx. 1.55 mm                                 |
| Wire colors                                   | White, yellow, blue, orange                     |
| Type of pair shielding                        | Aluminum-lined polyester foil                   |
| Overall twist                                 | Star quad                                       |
| Shielding                                     | Tinned copper braided shield                    |
| External sheath, color                        | signal red RAL 3020                             |
| Outer sheath thickness                        | approx. 0.9 mm                                  |
| External cable diameter D                     | 6.5 mm ±0.2 mm                                  |
| Minimum bending radius, fixed installation    | 3 x D                                           |
| Minimum bending radius, flexible installation | 7 x D                                           |
| Cable weight                                  | 68 kg/km                                        |
| Outer sheath, material                        | PVC                                             |
| Material, inner sheath                        | PVC                                             |
| Material conductor insulation                 | PE                                              |
| Conductor material                            | Tin-plated Cu litz wires                        |
| Insulation resistance                         | ≥ 0.5 GΩ*km                                     |
| Conductor resistance                          | ≤ 120 Ω/km                                      |
| Wave impedance                                | 100 Ω ±15 Ω (at 100 MHz)                        |
| Signal runtime                                | 5.3 ns/m                                        |
| Coupling resistance                           | ≤ 20.00 mΩ/m (at 10 Hz)                         |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                          |
| Test voltage Core/Shield                      | 2000 V (50 Hz, 1 min.)                          |
| Flame resistance                              | According to UL 1685 (CSA FT 4)                 |
| Resistance to oil                             | Resistant to oil to a limited extent            |
| Other resistance                              | UV resistant According to UL 1581, Section 1200 |
| Ambient temperature (operation)               | -40 °C ... 70 °C (cable, fixed installation)    |
|                                               | -40 °C ... 70 °C (cable, flexible installation) |
| Ambient temperature (installation)            | -20 °C ... 60 °C                                |

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### Technical data

#### Cable

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -50 °C ... 70 °C |
|-----------------------------------------|------------------|

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060307 |
| eCl@ss 4.1 | 27060307 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27279218 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC000830 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 26121616 |
| UNSPSC 13.2   | 26121616 |

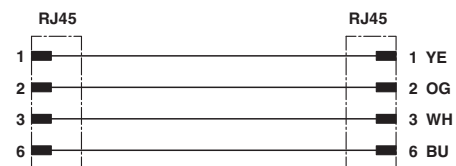
### Drawings

Cable cross section



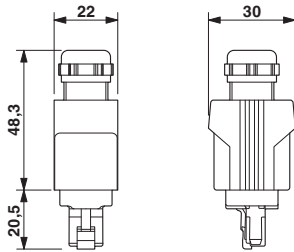
Sercos III [93K]

Circuit diagram



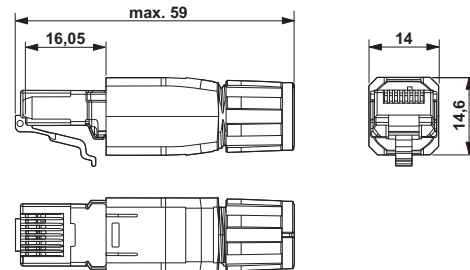
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Dimensioned drawing



Push-pull RJ45 connector IP65/67

Dimensioned drawing



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