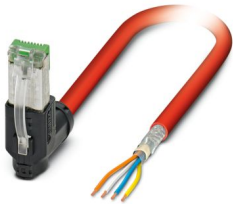


# VS-PNRJ45R-OE-93K/5,0 - Bus system cable

1408222

<https://www.phoenixcontact.com/us/products/1408222>

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Sercos III patch cable, shielded, star quad, 22 AWG stranded (7-wire), RAL 3020 (traffic red), RJ45 plug/IP20, angled, to open cable end, angled, length: 5 m

Sercos III patch cable

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1408222       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 10 pc         |
| Product key                          | ABNABA        |
| GTIN                                 | 4046356797245 |
| Weight per piece (including packing) | 356.7 g       |
| Weight per piece (excluding packing) | 356.7 g       |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                     |                          |
|---------------------|--------------------------|
| Product type        | Data cable preassembled  |
| Product family      | RJ45 INDUSTRIAL PN4 CAT5 |
| Application         | Standard                 |
| Number of positions | 4                        |
| Shielded            | yes                      |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 1 |

### Interfaces

|                      |                  |
|----------------------|------------------|
| Signal type/category | Sercos, 100 Mbps |
|----------------------|------------------|

### Signaling

|                |    |
|----------------|----|
| Status display | no |
|----------------|----|

### Electrical properties

|   |           |
|---|-----------|
| Rated voltage (III/3)                   | 72 V (DC) |
| Transmission medium                     | Copper    |
| Transmission speed                      | 100 Mbps  |
| Transmission characteristics (category) | CAT5      |
| Transmission speed                      | 100 Mbps  |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion force per signal contact  | 50.00 N |
| Extraction force per signal contact | 30 N    |

### Material specifications

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

### Connector

#### Connection 1

|                      |                  |
|----------------------|------------------|
| Type                 | Plug angled RJ45 |
| Shielded             | yes              |
| Degree of protection | IP20             |

#### Connection 2

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|


### Cable/line

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|   |  |
|---|--|
| Cable length                                  | 5.00 m   |
| Sercos III [93K]                              |  |
| Dimensional drawing                           |  |
| Cable weight                                  | 68 kg/km   |
| UL AWM Style                                  | 21694 (60 °C / 600 V)  |
| Number of positions                           | 4  |
| Shielded                                      | yes  |
| Cable type                                    | Sercos III [93K]   |
| Conductor structure                           | 1x4xAWG22/7, SF/TQ   |
| Signal runtime                                | 5.3 ns/m   |
| 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                | approx. 1.55 mm  |
| External cable diameter                       | 6.50 mm ±0.2 mm  |
| Outer sheath, material                        | PVC  |
| External sheath, color                        | signal red RAL 3020  |
| 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  |
| Type of pair shielding                        | Aluminum-lined polyester foil  |
| Overall twist                                 | Star quad  |
| Max. conductor resistance                     | ≤ 120 Ω/km   |
| Insulation resistance                         | ≥ 0.5 GΩ*km  |
| Coupling resistance                           | ≤ 20.00 mΩ/m (at 10 Hz)  |
| Wave impedance                                | 100 Ω ±15 Ω (at 100 MHz)   |
| Nominal voltage, cable                        | 600 V  |
| 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    | 3 x D  |
| Minimum bending radius, flexible installation | 7 x D  |
| Smallest bending radius, fixed installation   | 20 mm  |
| Smallest bending radius, movable installation | 46 mm  |
| Flame resistance                              | according to UL 1685 (CSA FT 4)  |
| Resistance to oil                             | Resistant to oil to a limited extent   |

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|                                    |   |
|------------------------------------|---|
| 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                                  |

## Environmental and real-life conditions

### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Degree of protection            | IP20  |
|                                 | IP20  |
| Ambient temperature (operation) | -20 °C ... 70 °C (Cable, flexible installation) |

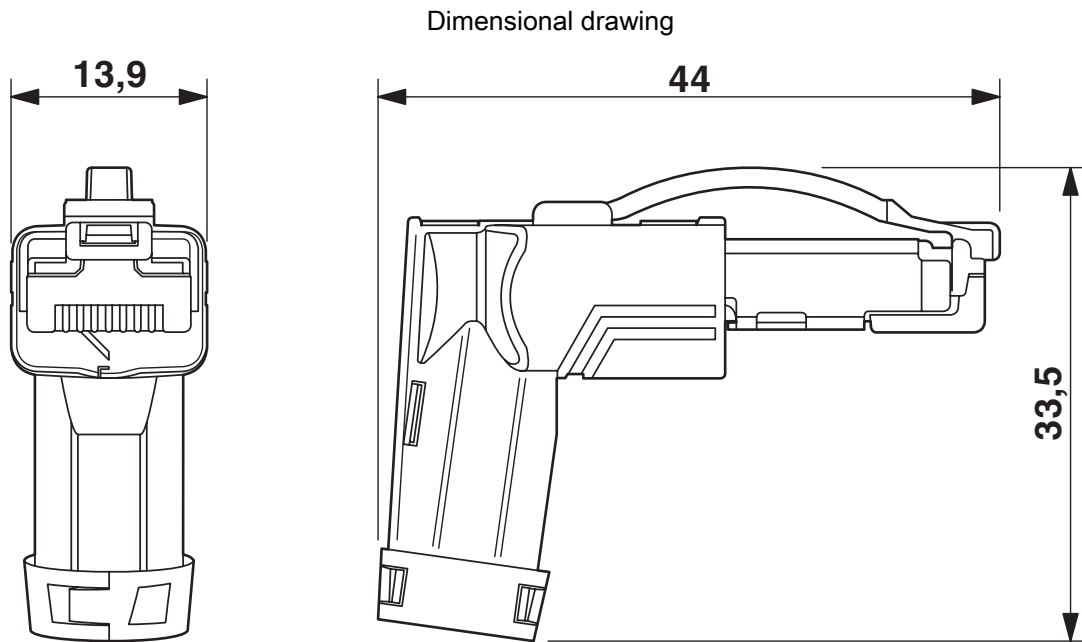
# VS-PNRJ45R-OE-93K/5,0 - Bus system cable



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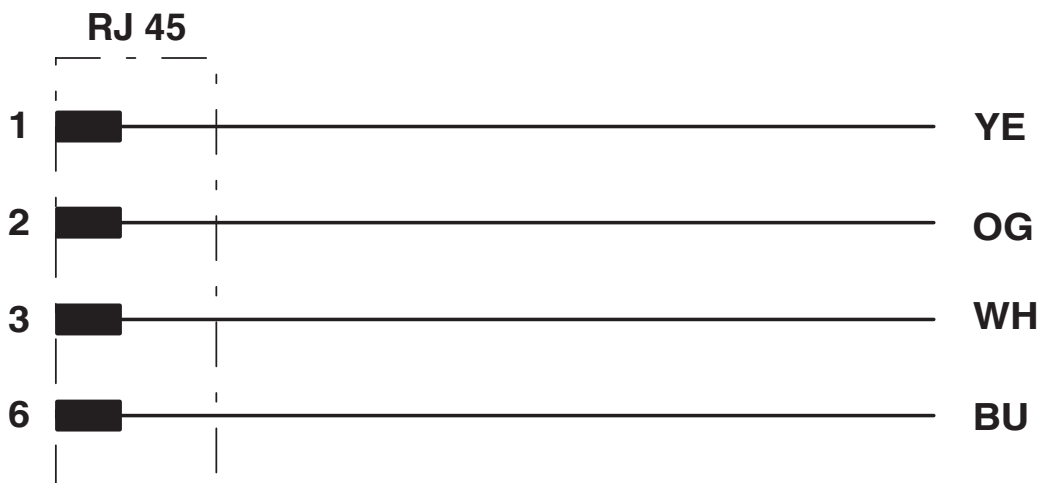
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## Drawings



RJ45 connector, IP20, angled

## Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

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

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