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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Bus system cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

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SERCOS III patch cable

SERCOS III patch cable, shielded, star quad, AWG 22 stranded (7-wire), RAL 3020 (traffic red), RJ45 connector/IP 20, straight, to RJ45 connector/IP20, straight, length: 1.0 m



### Key commercial data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 0                                                                                                       |
| Minimum order quantity | 1                                                                                                       |
| Catalog page           | Page 321 (PC-2011)                                                                                      |
| GTIN                   | <br>4 046356 622523 |
| Custom tariff number   | 85444210                                                                                                |
| Country of origin      | POLAND                                                                                                  |

### Technical data

#### Mechanical characteristics

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Number of positions             | 4                                               |
| Length of cable                 | 1 m                                             |
| Ambient temperature (operation) | -20 °C ... 70 °C (cable, flexible installation) |

#### Material data

|                                         |      |
|-----------------------------------------|------|
| Inflammability class according to UL 94 | V0   |
| Degree of protection                    | IP20 |

#### Line characteristics

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Cable structure                    | 1x4xAWG22/7; SF/Q                   |
| Conductor cross section            | 0.34 mm <sup>2</sup>                |
| AWG signal line                    | 22                                  |
| Conductor structure signal line    | 7x 0.25 mm                          |
| Core diameter including insulation | Approx. 1.5 mm                      |
| Thickness, insulation              | Approx. 0.9 mm (Outer cable sheath) |
| External cable diameter            | 6.50 mm                             |
| Wire colors                        | White, yellow, blue, orange         |

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## Technical data

### Line characteristics

|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| External sheath, color                        | signal red RAL 3020                          |
| Insulation resistance                         | min. 0.5 GΩ*km                               |
| Conductor resistance                          | ≤ 120 Ω/km                                   |
| Transmission characteristics (category)       | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
| Working capacitance                           | 52 pF                                        |
| Wave impedance                                | 100 Ω ± 15 Ω (At 1- 100 MHz)                 |
| Signal runtime                                | 5.3 ns/m                                     |
| Coupling resistance                           | max. 20.00 mΩ/m                              |
| Test voltage Core/Core                        | 2000 V                                       |
| Test voltage Core/Shield                      | 2000 V                                       |
| Type of pair shielding                        | Aluminum-lined polyester foil                |
| Overall twist                                 | Star quad                                    |
| Shielding                                     | Tinned copper braided shield                 |
| Outer sheath, material                        | PVC                                          |
| Material, inner sheath                        | PVC                                          |
| Material conductor insulation                 | PE                                           |
| Conductor material                            | Tin-plated Cu litz wires                     |
| Cable weight                                  | 67 kg/km                                     |
| Smallest bending radius, fixed installation   | min. 19.5 mm                                 |
| Smallest bending radius, movable installation | min. 45.5 mm                                 |

## Classifications

### eclass

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |

### etim

|          |          |
|----------|----------|
| ETIM 4.0 | EC002599 |
|----------|----------|

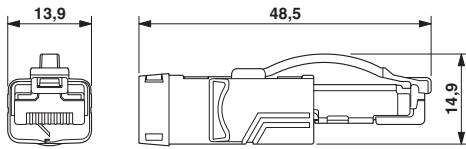
### unspsc

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 26121616 |

## Drawings

## Bus system cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

Dimensioned drawing



RJ45 plug connector, IP20

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Circuit diagram

