

VS-PNRJ45R-PNRJ45R-93K-2,0 - Patch cable



1402518

<https://www.phoenixcontact.com/us/products/1402518>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sercos III patch cable, shielded, star quad, AWG 22 stranded (7-wire), RAL 3020 (traffic red), RJ45 connector/IP 20, angled, to RJ45 connector/IP20, angled, length: 2.0 m

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 1402518 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABA |
| Catalog page | Page 321 (PC-2011) |
| GTIN | 4046356622578 |
| Weight per piece (including packing) | 164.3 g |
| Weight per piece (excluding packing) | 141.025 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

VS-PNRJ45R-PNRJ45R-93K-2,0 - Patch cable



1402518

<https://www.phoenixcontact.com/us/products/1402518>

Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | Sercos |
| Number of positions | 4 |
| Application | Standard |
| Shielded | yes |

Insulation characteristics

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

Signaling

| | |
|----------------|----|
| Status display | No |
|----------------|----|

Electrical properties

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

Mechanical properties

Mechanical data

| | |
|-------------------------------------|---------|
| Insertion force per signal contact | 30.00 N |
| Extraction force per signal contact | 50 N |

Material specifications

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

Connector

Connection 1

| | |
|---------------------------------|--|
| Type | Plug angled RJ45 |
| Shielded | yes |
| Handle color | black |
| Material | CuSn (Contact) Ni/Au (Contact surface) PA (Contact carriers) PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

Connection 2

VS-PNRJ45R-PNRJ45R-93K-2,0 - Patch cable



1402518


<https://www.phoenixcontact.com/us/products/1402518>

| | |
|---------------------------------|--|
| Type | Plug straight RJ45 |
| Shielded | yes |
| Handle color | black |
| Material | CuSn (Contact) Ni/Au (Contact surface) PA (Contact carriers) PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

Cable/line

| | |
|--------------|--------|
| Cable length | 2.00 m |
|--------------|--------|

Sercos III [93K]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Shielded | yes |
| UL AWM Style | 21694 (60 °C / 600 V) |
| Cable weight | 68 kg/km |
| Cable type | Sercos III |
| Cable type (abbreviation) | 93K |
| Signal type/category | Sercos CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 1x4xAWG22/7, SF/TQ |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | signal red RAL 3020 |
| Thickness, outer sheath | approx. 0.90 mm |
| Material, inner sheath | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |
| Conductor cross section | 4x 0.34 mm ² |
| Material wire insulation | PE |
| Wire diameter incl. insulation | approx. 1.55 mm |
| Single wire, color | white, yellow, blue, orange |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | Star quad |

VS-PNRJ45R-PNRJ45R-93K-2,0 - Patch cable



1402518

<https://www.phoenixcontact.com/us/products/1402518>

| | |
|---|---|
| Shielding | Tinned copper braided shield |
| 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.) |
| Cable resistance | $\leq 120 \Omega/\text{km}$ |
| Cable insulation resistance | $\geq 0.5 \text{ G}\Omega \cdot \text{km}$ |
| Coupling resistance | $\leq 20.00 \text{ m}\Omega/\text{m}$ (at 10 Hz) |
| Wave impedance | $100 \Omega \pm 15 \Omega$ (at 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Minimum bending radius, fixed installation | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Resistance to oil | Resistant to oil to a limited extent |
| Flame resistance | according to UL 1685 (CSA FT 4) |
| Other resistance | UV resistant (According to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C ... 70 °C (Cable, flexible installation) -40 °C ... 70 °C (cable, fixed installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP20 |
| | IP20 |

VS-PNRJ45R-PNRJ45R-93K-2,0 - Patch cable



1402518

<https://www.phoenixcontact.com/us/products/1402518>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27060308 |
| ECLASS-12.0 | 27060308 |
| ECLASS-13.0 | 27060307 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002599 |
|----------|----------|

UNSPSC

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

VS-PNRJ45R-PNRJ45R-93K-2,0 - Patch cable



1402518

<https://www.phoenixcontact.com/us/products/1402518>

Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values |
|------------|---|

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com