

## Patch cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

Sercos III patch cable



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	140.0 g
Custom tariff number	85444210
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	1 m
-----------------	-----

#### Ambient conditions

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

#### General data

Number of positions	4
Signal type/category	Sercos III
Degree of pollution	1

#### Characteristics head 1

Head type	Plug straight RJ45 / IP20
No. of positions (pin connector pattern)	4 (8)
Color	black
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)

# Patch cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

## Technical data

### Characteristics head 1

	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-25 °C ... 80 °C

### Characteristics head 2

Head type	Plug straight RJ45 / IP20
No. of positions (pin connector pattern)	4 (8)
Color	black
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	PA (Housing)
Insertion/withdrawal cycles	≥ 750
Ambient temperature (operation)	-25 °C ... 80 °C

### Standards and Regulations

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

### 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), 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

# Patch cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

## Technical data

### Cable

Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	$\geq 0.5 \text{ G}\Omega\text{-km}$
Conductor resistance	$\leq 120 \Omega/\text{km}$
Wave impedance	$100 \Omega \pm 15 \Omega$ (at 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	$\leq 20.00 \text{ m}\Omega/\text{m}$ (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
Ambient temperature (storage/transport)	-50 °C ... 70 °C

## Classifications

### eCl@ss

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
eCl@ss 8.0	27060308
eCl@ss 9.0	27060308

### ETIM

ETIM 4.0	EC002599
ETIM 5.0	EC002599

### UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604

## Patch cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

### Classifications

#### UNSPSC

UNSPSC 12.01	31261501
UNSPSC 13.2	26121616

### Approvals

#### Approvals

---

#### Approvals

#### EAC

---

#### Ex Approvals

---

#### Approvals submitted

---

### Approval details

#### EAC

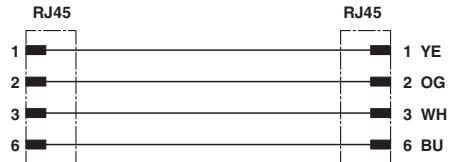
---

### Drawings

Cable cross section



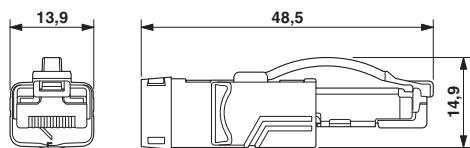
Circuit diagram



Sercos III [93K]

## Patch cable - VS-PNRJ45-PNRJ45-93K-1,0 - 1402512

Dimensional drawing



RJ45 connector, IP20

---

Phoenix Contact 2016 © - all rights reserved  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1402512](#)