

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



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, 22 AWG stranded (7-wire), RAL 3020 (traffic red), RJ45 connector/IP20, straight to RJ45 connector/IP20, straight, length: 4 m

Commercial data

Item number	1404491
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB11
Product key	ABNABA
GTIN	4046356698313
Weight per piece (including packing)	297.4 g
Weight per piece (excluding packing)	293.903 g
Customs tariff number	85444210
Country of origin	PL

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL PN4 CAT5
Sensor type	Sercos
Number of positions	4
Shielded	yes

Insulation characteristics

Degree of pollution	1
---------------------	---

Electrical properties

Rated voltage (III/3)	72 V (DC)
Transmission medium	Copper
Transmission speed	100 Mbps
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 straight RJ45
Shielded	yes
Material	CuSn (Contact) Ni/Au (Contact surface) PA (Contact carrier) PA (Housing)
Degree of protection	IP20

Connection 2

Type	Plug straight RJ45
Shielded	yes
Material	CuSn (Contact) Ni/Au (Contact surface) PA (Contact carrier) PA (Housing)
Insertion/withdrawal cycles	≥ 750

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



Degree of protection

IP20

Cable/line

Cable length

4.00 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 mm²

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

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



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
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

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

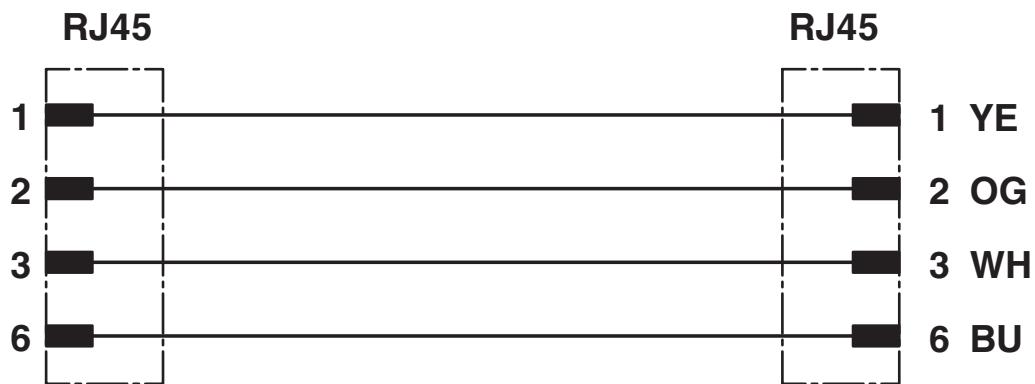
1404491

<https://www.phoenixcontact.com/us/products/1404491>



Drawings

Circuit diagram



VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1404491>



EAC

Approval ID: 19060508

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

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

UNSPSC

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

VS-PNRJ45-PNRJ45-93K-4 - Bus system cable

1404491

<https://www.phoenixcontact.com/us/products/1404491>



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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - 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