

VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

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 cable, shielded, star quad, AWG 22 stranded (7-wire), RAL 3020 (traffic red), RJ45 connector/IP67 push-pull, plastic housing on RJ45 connector/IP67 push-pull, plastic housing, length: 5 m

Commercial data

Item number	1419181
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB11
Product key	ABNABA
GTIN	4046356541268
Weight per piece (including packing)	399.663 g
Weight per piece (excluding packing)	399.663 g
Customs tariff number	85444210
Country of origin	PL

VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

Technical data

Product properties

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

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Signaling

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

Electrical properties

Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5
Transmission speed	100 Mbps

Material specifications

Color	black
Flammability rating according to UL 94	V0
Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

Connector

Connection 1

Type	Plug straight RJ45
Locking type	Push Pull
Material	Plastic
Degree of protection	IP67

Connection 2

Type	Plug straight RJ45
Locking type	Push Pull
Material	Plastic
Degree of protection	IP67

Cable/line

Cable length	5.00 m
--------------	--------

VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

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 ²
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
Other resistance	UV resistant (according to UL 1581, Section 1200)

VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 60 °C

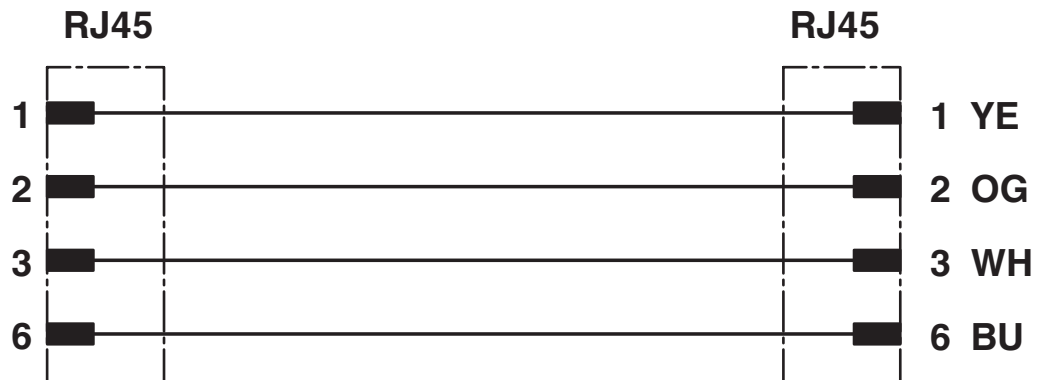
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (Cable, flexible installation)

Drawings

Circuit diagram



VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1419181>



EAC

Approval ID: 19060508

VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

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

UNSPSC

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

VS-PPC/PL-PPC/PL-93K-LI/5,0 - Patch cable



1419181

<https://www.phoenixcontact.com/us/products/1419181>

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.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	8e70ecd3-1eb2-4c89-a62d-810d0f5340ea

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