

# VS-PPC/PL-PPC/PL-93B-LI/5,0 - Network cable



1416171

<https://www.phoenixcontact.com/us/products/1416171>

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.



Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 stranded (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP67 push-pull plastic housing on RJ45 plug/IP67 push-pull plastic housing, line, length: 5 m

## Commercial data

Item number	1416171
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNABA
GTIN	4046356474276
Weight per piece (including packing)	398 g
Weight per piece (excluding packing)	368.036 g
Country of origin	PL

1416171

<https://www.phoenixcontact.com/us/products/1416171>

## Technical data

### Product properties

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

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

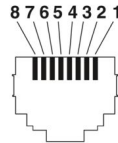
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps
Wave impedance	100 Ω

### 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

Dimensional drawing	 <p>Connector pin assignment plug RJ45</p>
Type	RJ45 Plug, straight, 4-position, Push Pull
Number of positions	4
Shielded	yes
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	≥ 500
Degree of pollution	2

# VS-PPC/PL-PPC/PL-93B-LI/5,0 - Network cable

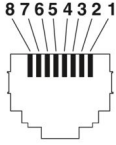


1416171

<https://www.phoenixcontact.com/us/products/1416171>

Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	Plastic
Color (Housing)	black
Flammability rating according to UL 94	V2
Degree of protection	IP67 IP65
Ambient temperature (operation)	-40 °C ... 70 °C

## Connection 2

Dimensional drawing	 <p>Connector pin assignment plug RJ45</p>
Type	RJ45 Plug, straight, 4-position, Push Pull
Number of positions	4
Shielded	yes
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	≥ 500
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	Plastic
Color (Housing)	black
Flammability rating according to UL 94	V2
Degree of protection	IP67 IP65
Ambient temperature (operation)	-40 °C ... 70 °C

## Cable/line

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


PROFINET PVC stranded CAT5 [93B]

# VS-PPC/PL-PPC/PL-93B-LI/5,0 - Network cable



1416171

<https://www.phoenixcontact.com/us/products/1416171>

Dimensional drawing	
UL AWM Style	21695 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	PROFINET PVC stranded CAT5 [93B]
Conductor structure	1x4xAWG22/7, SF/TQ
AWG signal line	22
Conductor cross-section	4x 0.34 mm <sup>2</sup>
Wire diameter incl. insulation	1.5 mm ±0.1 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange
Overall twist	Star quad
Optical shield covering	85 %
Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±5 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	4 x D
Minimum bending radius, flexible installation	8 x D
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) UL 1685 (CSA FT 4) UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -10 °C ... 70 °C (Cable, flexible installation)

## Standards and regulations

Standards/specifications	IEC PAS 61076-3-117
--------------------------	---------------------

# VS-PPC/PL-PPC/PL-93B-LI/5,0 - Network cable

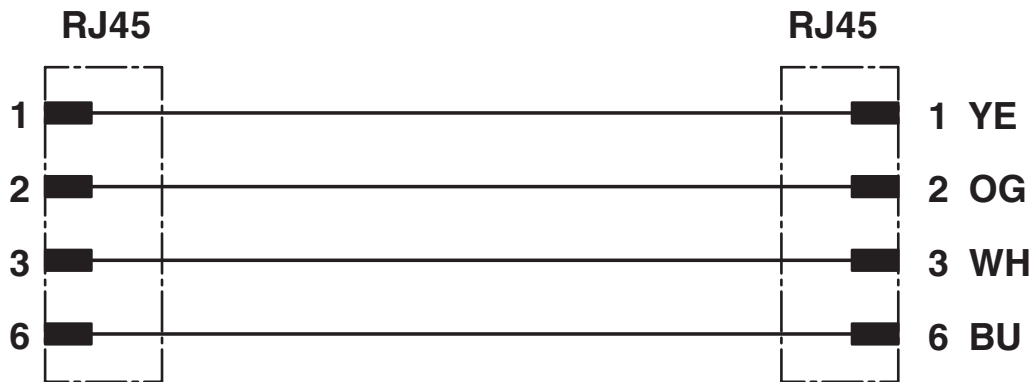


1416171

<https://www.phoenixcontact.com/us/products/1416171>

## Drawings

Circuit diagram



# VS-PPC/PL-PPC/PL-93B-LI/5,0 - Network cable



1416171

<https://www.phoenixcontact.com/us/products/1416171>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416171>



**EAC**

Approval ID: 19060508

# VS-PPC/PL-PPC/PL-93B-LI/5,0 - Network cable



1416171

<https://www.phoenixcontact.com/us/products/1416171>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

ETIM 10.0	EC001855
-----------	----------

### UNSPSC

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

1416171

<https://www.phoenixcontact.com/us/products/1416171>

## 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	b7ed0a07-ffac-4f51-9cbd-6de180c3d4cd

Phoenix Contact 2026 © - 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](mailto:info@phoenixcon.com)