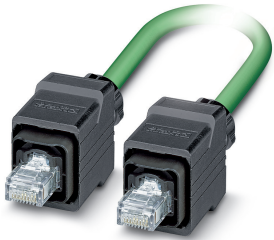


## Network cable - VS-PPC/PL-PPC/PL-93B-LI/5,0 - 1416171


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



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



### Key Commercial Data

Packing unit	1
GTIN	 4 046356 474276
GTIN	4046356474276
Custom tariff number	85444210

### Technical data

#### Dimensions

Length of cable	5.00 m
-----------------	--------

#### Ambient conditions

Degree of protection	IP65
	IP67

#### General data

Number of positions	4
Standards/regulations	IEC PAS 61076-3-117
Overvoltage category	I
Degree of pollution	2
Alternative short product description	PROFINET cable
Locking type	Push Pull
Insertion/withdrawal cycles	≥ 250

# Network cable - VS-PPC/PL-PPC/PL-93B-LI/5,0 - 1416171

## Technical data

### General data

Transmission characteristics (category)	CAT5
---	------

### Characteristics head 1

Material (component)	Plastic
----------------------	---------

### Characteristics head 2

Material (component)	Plastic
----------------------	---------

### Standards and Regulations

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

### Cable

Cable type	PROFINET PVC stranded CAT5
Cable type (abbreviation)	93B
UL AWM style	21694
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT® 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	1.55 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
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	67 kg/km
Outer sheath, material	PVC
Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±15 Ω (at 100 MHz)

# Network cable - VS-PPC/PL-PPC/PL-93B-LI/5,0 - 1416171

## Technical data

### Cable

Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz)
	76 dB (at 4 MHz)
	70 dB (at 10 MHz)
	65 dB (at 16 MHz)
	63 dB (at 20 MHz)
	60 dB (at 31.25 MHz)
	55 dB (at 62.5 MHz)
	50 dB (at 100 MHz)
Attenuation	2.1 dB (with 1 MHz)
	4 dB (at 4 MHz)
	6.3 dB (at 10 MHz)
	8 dB (at 16 MHz)
	9 dB (at 20 MHz)
	11.4 dB (at 31.25 MHz)
	16.5 dB (at 62.5 MHz)
	21.3 dB (at 100 MHz)
Signal speed	0.66 c
Signal runtime	5.3 ns/m
Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)
Nominal voltage, cable	600 V
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
Shielded	yes

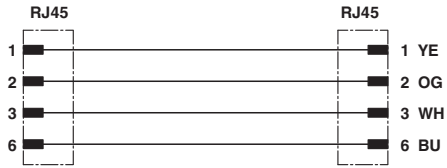
### Environmental Product Compliance

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

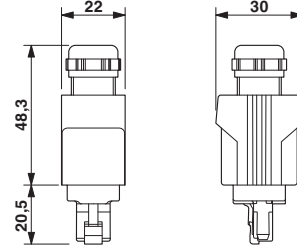
### Drawings

# Network cable - VS-PPC/PL-PPC/PL-93B-LI/5,0 - 1416171

Circuit diagram

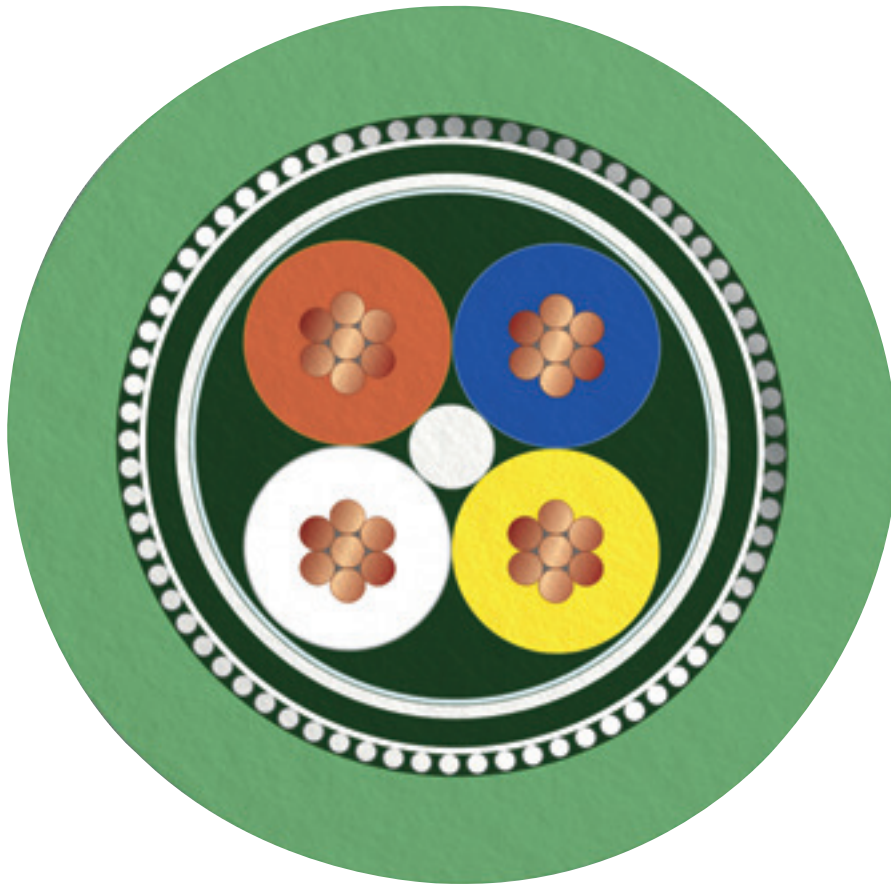


Dimensional drawing



Push-pull RJ45 connector IP65/67

Cable cross section



PROFINET PVC stranded CAT5 [93B]

# Network cable - VS-PPC/PL-PPC/PL-93B-LI/5,0 - 1416171

## Classifications

### eCl@ss

eCl@ss 10.0.1	27060308
eCl@ss 11.0	27060308
eCl@ss 4.0	24010400
eCl@ss 4.1	24010400
eCl@ss 5.0	19030300
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27060308
eCl@ss 9.0	27060308

### ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 6.0	EC001262
ETIM 7.0	EC002599

### UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121604
UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121604

## Approvals

### Approvals

---

Approvals

EAC

---


Ex Approvals

---

## Network cable - VS-PPC/PL-PPC/PL-93B-LI/5,0 - 1416171

### Approvals

#### Approval details

EAC		19060508
-----	---	----------