

# VS-BU/PN-PPC/ME-93B-LI/2,0 - Network cable



1416176

<https://www.phoenixcontact.com/us/products/1416176>

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 socket module/IP20 for Freenet system, 4-pos. on RJ45 plug/IP67, push-pull metal housing, line, length: 2 m

## Commercial data

Item number	1416176
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABNABA
GTIN	4046356474290
Weight per piece (including packing)	222.6 g
Weight per piece (excluding packing)	207.448 g
Country of origin	PL

1416176

<https://www.phoenixcontact.com/us/products/1416176>

## Technical data

### Product properties

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

### Interfaces

Signal type/category	PROFINET CAT5 (IEC 11801:2002), 100 Mbps
----------------------	--

### Electrical properties

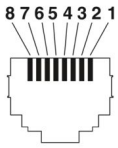
Transmission medium	Copper
Transmission speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps
Wave impedance	100 Ω

### Material specifications

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
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT® CAT5 (IEC 11801)
Insertion/withdrawal cycles	≥ 750
Insulation resistance	≥ 100 MΩ
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC

# VS-BU/PN-PPC/ME-93B-LI/2,0 - Network cable

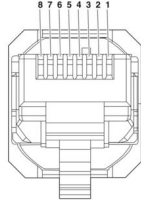


1416176

<https://www.phoenixcontact.com/us/products/1416176>

Material Housing	PA-GF
Color (Housing)	gray
Flammability rating according to UL 94	V2
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C

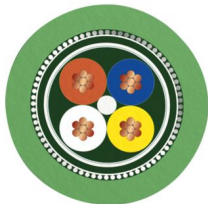
## Connection 2

Dimensional drawing	 <p>Connector pin assignment</p>
Type	RJ45 Plug, straight, 4-position
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
Insertion/withdrawal cycles	≥ 1000
Insertion force	< 20 N (per signal contact)
Withdrawal force	< 20 N (per signal contact)
Insulation resistance	> 500 MΩ
Overvoltage category	I
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Color (Housing)	gray
Flammability rating according to UL 94	V0
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 70 °C

## Cable/line

Cable length	2.00 m
--------------	--------

## PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
UL AWM Style	21695 (80 °C / 600 V)

# VS-BU/PN-PPC/ME-93B-LI/2,0 - Network cable



1416176

<https://www.phoenixcontact.com/us/products/1416176>

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)

# VS-BU/PN-PPC/ME-93B-LI/2,0 - Network cable



1416176

<https://www.phoenixcontact.com/us/products/1416176>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416176>



**EAC**

Approval ID: 19060508

# VS-BU/PN-PPC/ME-93B-LI/2,0 - Network cable



1416176

<https://www.phoenixcontact.com/us/products/1416176>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

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

### UNSPSC

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

1416176

<https://www.phoenixcontact.com/us/products/1416176>

## 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	7cb01b20-9c6e-4d85-a675-d7b30781ee0b

### EF3.1 Climate Change

CO2e kg	4.681 kg CO2e
---------	---------------

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)