

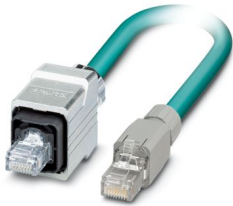
VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



1412943

<https://www.phoenixcontact.com/nl/products/1412943>

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 Ethernet cable, shielded, 4-pair, AWG 26 flexible cable conduit capable (19-wire), RAL 5021 (sea blue), RJ45 connector/IP67 push/pull metal housing to RJ45 connector/IP20, line, length 2 m

Commercial data

Item number	1412943
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	ABNABE
Product key	ABNABE
GTIN	4046356475723
Weight per piece (including packing)	199 g
Weight per piece (excluding packing)	187,773 g
Customs tariff number	85444210
Country of origin	PL

VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



1412943

<https://www.phoenixcontact.com/nl/products/1412943>

Technical data

Product properties

Product family	RJ45 INDUSTRIAL IE8 CAT5
Sensor type	Ethernet
Number of positions	8
Shielded	yes

Electrical properties

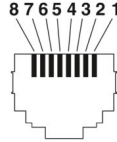
Transmission speed	1 Gbps
Transmission speed	1 Gbps
Wave impedance	100 Ω

Material specifications

Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Connector

Connection 1

Dimensional drawing	 Connector pin assignment plug RJ45
Type	RJ45 Plug, straight, 8-position, Push Pull
Number of positions	8
Shielded	yes
Signal type/category	Ethernet CAT5, 1 Gbps
Insertion/withdrawal cycles	≥ 250
Degree of pollution	2
Material Contact	CuSn
Material Contact surface	Ni/Au
Material Contact carrier	PC
Material Housing	Die-cast zinc, nickel-plated
Color (Housing)	silver-colored
Flammability rating according to UL 94	V2
Degree of protection	IP67 IP65
Ambient temperature (operation)	-40 °C ... 70 °C

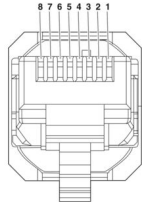
VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



1412943

<https://www.phoenixcontact.com/nl/products/1412943>

Connection 2

Dimensional drawing	
	Connector pin assignment
Type	RJ45 Plug, straight, 8-position
Number of positions	8
Signal type/category	Ethernet CAT5 (IEC 11801:2002), 1 Gbps
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
--------------	--------

Ethernet drag chain CAT5, 4-pair [94C]

Dimensional drawing	
Cable weight	57 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet drag chain CAT5, 4-pair [94C]
Conductor structure	4x2xAWG26/19, S/UTP

VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



1412943

<https://www.phoenixcontact.com/nl/products/1412943>

Signal runtime	5.3 ns/m
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor cross-section	4x 2x 0.14 mm ²
Wire diameter incl. insulation	1 mm
External cable diameter	6.90 mm +0.1 mm ... 0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Thickness, outer sheath	0.85 mm
Twisted pairs	2 cores to the pair
Overall twist	Four pairs and four fillers to the core
Optical shield covering	90 %
Insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Loop resistance	≤ 290.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Cable capacity	approx. 50 nF/km (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	28 mm
Smallest bending radius, movable installation	56 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 7,5 x D, Traversing rate: 3 m/s, Acceleration: 5 m/s ²
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)
	56.3 dB (at 4 MHz)
	50.3 dB (at 10 MHz)
	47.2 dB (at 16 MHz)
	45.8 dB (at 20 MHz)
	42.9 dB (at 31.25 MHz)
	38.4 dB (at 62.5 MHz)
	35.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)

VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



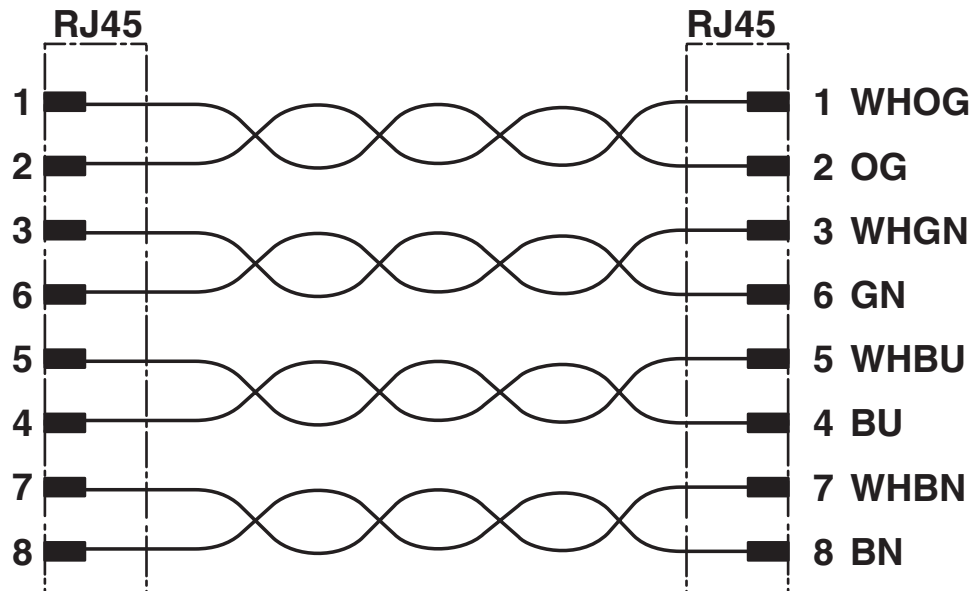
1412943

<https://www.phoenixcontact.com/nl/products/1412943>

	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return attenuation (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
Resistance to oil	in accordance with EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 80 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C

Drawings

Circuit diagram



VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



1412943

<https://www.phoenixcontact.com/nl/products/1412943>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1412943>



EAC

Approval ID: 19060508

VS-PPC/ME-IP20-94C-LI/2,0 - Network cable



1412943

<https://www.phoenixcontact.com/nl/products/1412943>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

ETIM

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

UNSPSC

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

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	028112c1-1c8e-4d0e-ad74-917ef9db3503