

VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888

<https://www.phoenixcontact.com/us/products/1412888>

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 gray to RJ45 connector/IP20, line, length 2 m

Commercial data

Item number	1412888
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB11
Product key	ABNABM
Catalog page	Page 302 (PC-2011)
GTIN	4046356475709
Weight per piece (including packing)	152.5 g
Weight per piece (excluding packing)	313.76 g
Customs tariff number	85444210
Country of origin	PL

VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888

<https://www.phoenixcontact.com/us/products/1412888>

Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Number of slots	1
Shielded	yes
Cable outlet	straight

Insulation characteristics

Degree of pollution	2
---------------------	---

Electrical properties

Transmission medium	Copper
Transmission speed	1 Gbps
Wave impedance	100 Ω

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 750
-----------------------------	------------

Material specifications

Flammability rating according to UL 94	V2
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Connector

Connection 1

Type	Plug straight RJ45
Handle color	gray
Degree of protection	IP67

Connection 2

Type	Plug straight RJ45
Handle color	gray
Degree of protection	IP20

Cable/line

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

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

VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888

<https://www.phoenixcontact.com/us/products/1412888>

Dimensional drawing	
Shielded	yes
UL AWM Style	20963 (80°C/30 V)
Cable weight	57 kg/km
Cable type	Ethernet drag chain CAT5, 4-pair
Short symbol	9YC(ST)11Y
Cable type (abbreviation)	94C
Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps
Cable structure	4x2xAWG26/19, S/UTP
External cable diameter	6.90 mm +0.1 mm ... 0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Thickness, outer sheath	0.85 mm
Conductor material	Bare Cu litz wires
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Material wire insulation	PP
Wire diameter incl. insulation	1 mm
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	Four pairs and four fillers to the core
Shielding	Tinned copper braided shield
Optical shield covering	90 %
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.)
Cable insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Loop resistance	≤ 290.00 Ω/km
Cable capacity	approx. 50 nF/km (at 1 kHz)
Signal runtime	5.3 ns/m
Tensile strength	≤ 100 N
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D

VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888

<https://www.phoenixcontact.com/us/products/1412888>

Number of bending cycles	5000000
Minimum bending radius, drag chain applications	7,5 x D
Traversing rate	3 m/s
Acceleration	5 m/s ²
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)
	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)
Halogen-free	according to IEC 60754-1
Resistance to oil	in accordance with EN 60811-2-1
Flame resistance	according to IEC 60332-1-2
Ambient temperature (operation)	-20 °C ... 80 °C (Cable, flexible installation)
	-40 °C ... 80 °C (cable, fixed installation)

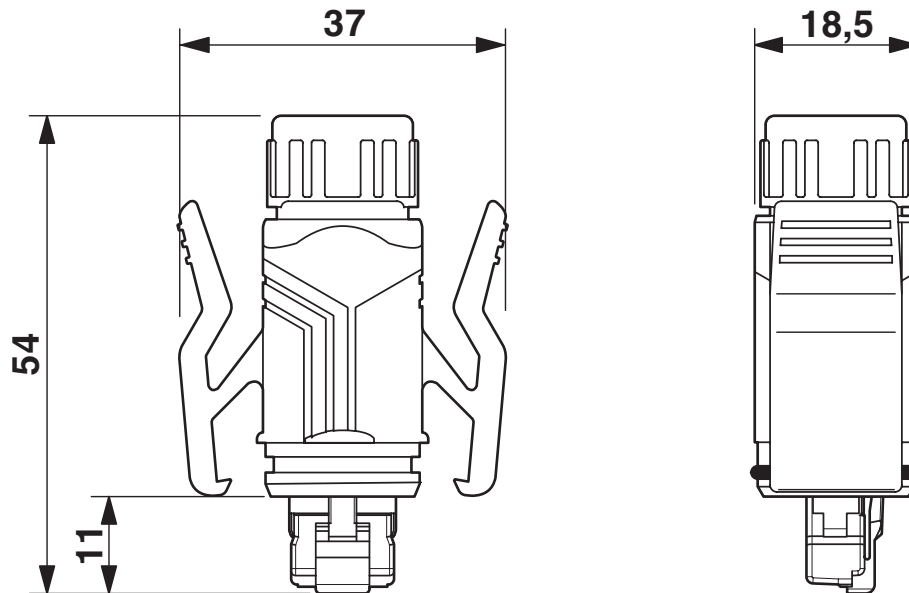
Environmental and real-life conditions

Ambient conditions

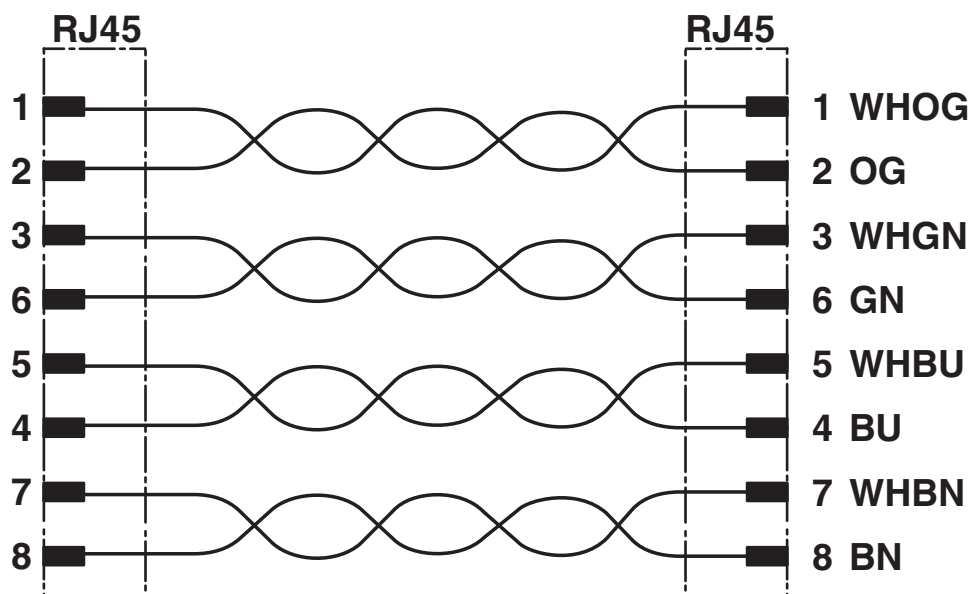
Degree of protection	IP20
	IP67
	IP67/IP20

Drawings

Dimensional drawing



Circuit diagram



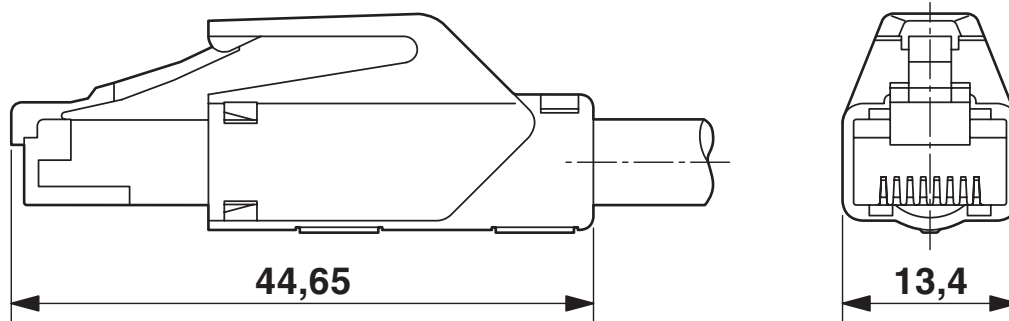
VS-IP67-IP20-94C-LI/2,0 - Network cable

1412888

<https://www.phoenixcontact.com/us/products/1412888>



Dimensional drawing



VS-IP67-IP20-94C-LI/2,0 - Network cable

1412888

<https://www.phoenixcontact.com/us/products/1412888>



Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1412888>



EAC

Approval ID: 19060508

VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888

<https://www.phoenixcontact.com/us/products/1412888>

Classifications

ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27060308
ECLASS-13.0	27060307

ETIM

ETIM 9.0	EC002599
----------	----------

UNSPSC

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

VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888
<https://www.phoenixcontact.com/us/products/1412888>

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)
SCIP	8ca901ba-5a1e-4728-be39-4550279577cc

Phoenix Contact 2024 © - 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