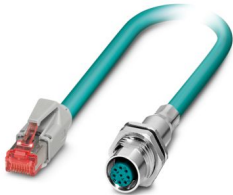


1403535
<https://www.phoenixcontact.com/pc/products/1403535>

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.



Network cable, cable length: 0.5 m, number of positions: 8, 1 Gbps, CAT5, cable outlet: straight, Ethernet

Commercial data

Item number	1403535
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABNPAA
GTIN	4046356656924
Weight per piece (including packing)	60.6 g
Weight per piece (excluding packing)	56.9 g
Customs tariff number	85444290
Country of origin	PL

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535

<https://www.phoenixcontact.com/pc/products/1403535>

Technical data

Mounting

Mounting type	Rear wall/screw mounting
---------------	--------------------------

Product properties

Product type	Circular connectors (device side)
Type	M12
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Shielded	yes
Cable outlet	straight

Data management status

Article revision	05
------------------	----

Insulation characteristics

Degree of pollution	3
---------------------	---

Material specifications

Flammability rating according to UL 94	V2
Seal material, flat gasket	FKM / FPM
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	1 Gbps
Wave impedance	100 Ω

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Connector

Connection 1

Type	Flush-type female connector straight M12
Coding type	A
Degree of protection	IP20

Connection 2

Type	Plug straight RJ45
------	--------------------

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535

<https://www.phoenixcontact.com/pc/products/1403535>

Degree of protection	IP20
----------------------	------

Cable/line

Cable length	0.50 m
--------------	--------

Ethernet flexible CAT5, 4-pair [94B]

Dimensional drawing	
Cable weight	47 kg/km
UL AWM Style	20963 (80°C/30 V)
Number of positions	8
Shielded	yes
Cable type	Ethernet flexible CAT5, 4-pair [94B]
Conductor structure	4x2xAWG26/7, SF/UTP
Signal runtime	5.3 ns/m
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross section	4x 2x 0.14 mm²
Wire diameter incl. insulation	0.96 mm
External cable diameter	6.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Thickness, outer sheath	1.05 mm
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	70 %
Insulation resistance	≥ 5 GΩ*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	48 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.)

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535

<https://www.phoenixcontact.com/pc/products/1403535>

Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm
Tensile strength	≤ 100 N
Near end crosstalk attenuation (NEXT)	71.3 dB (with 1 MHz)
	62.3 dB (at 4 MHz)
	56.3 dB (at 10 MHz)
	53.2 dB (at 16 MHz)
	51.8 dB (at 20 MHz)
	48.9 dB (at 31.25 MHz)
	44.4 dB (at 62.5 MHz)
	41.3 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)
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

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535

<https://www.phoenixcontact.com/pc/products/1403535>

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 80 °C (Plug / socket)
	-40 °C ... 80 °C (without mechanical actuation)
	-25 °C ... 80 °C (Cable, flexible installation)

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable

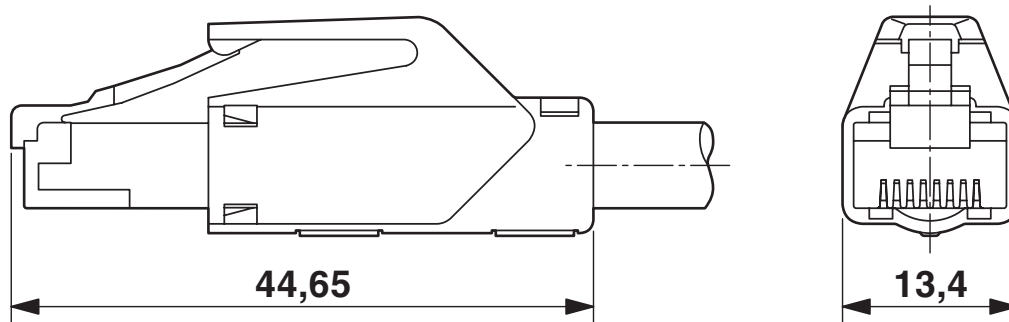
1403535

<https://www.phoenixcontact.com/pc/products/1403535>



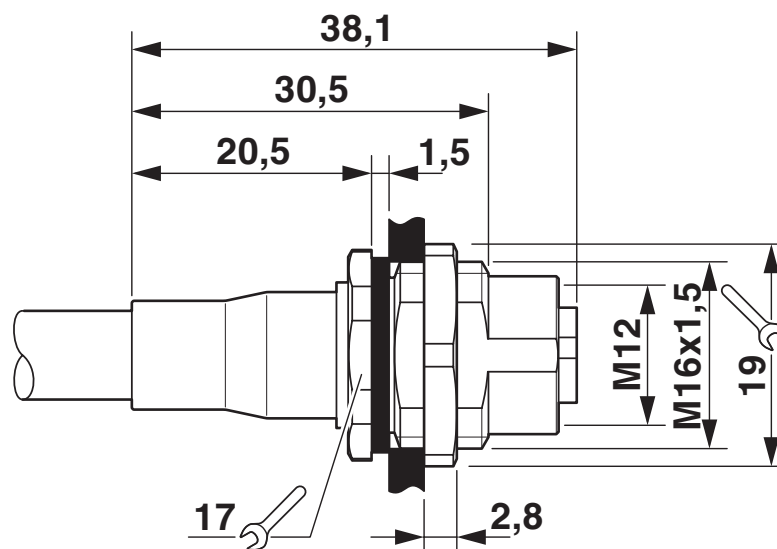
Drawings

Dimensional drawing



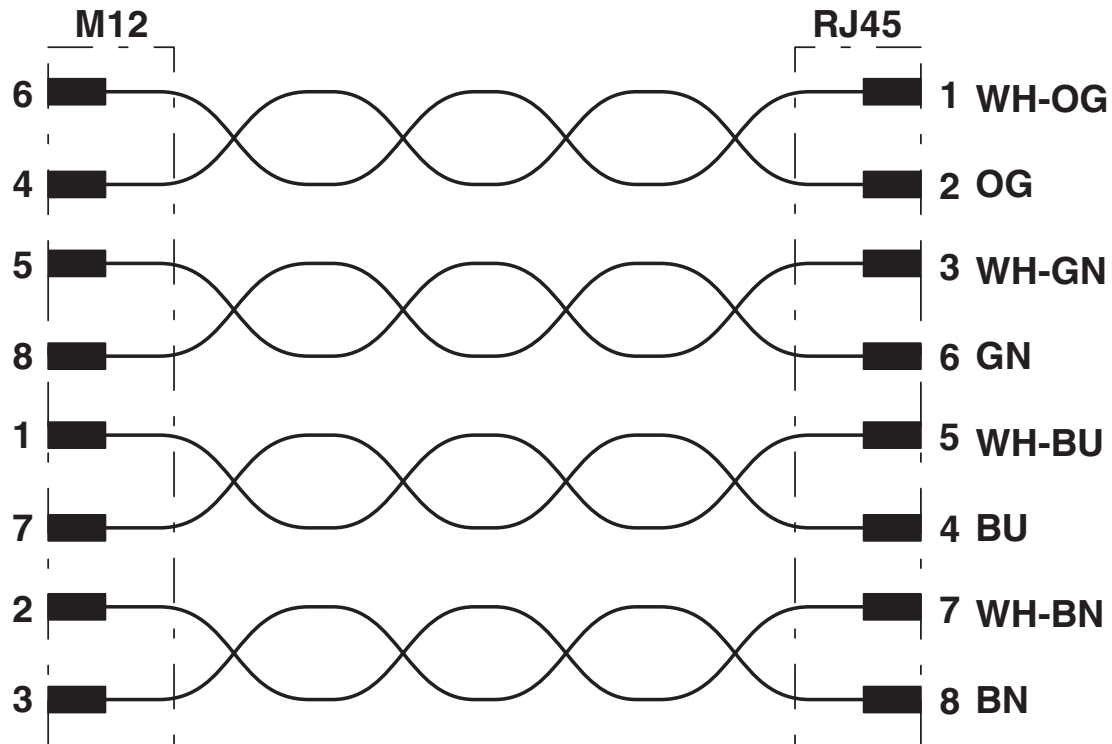
Dimensional drawing

Dimensional drawing



M12 flush-type connector

Circuit diagram



VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535

<https://www.phoenixcontact.com/pc/products/1403535>

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1403535>



EAC

Approval ID: 19060508

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535

<https://www.phoenixcontact.com/pc/products/1403535>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

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

VS-M12FSBP-IP20-94B-LI/0,5 - Network cable



1403535
<https://www.phoenixcontact.com/pc/products/1403535>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	943ee816-9118-471d-9bde-c5646a61ac8f

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com