

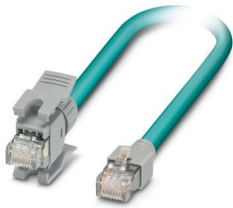
VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable



1689611

<https://www.phoenixcontact.com/us/products/1689611>

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, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), line, RAL 5021 (water blue), RJ45/IP20 on RJ45, length: 5 m

Commercial data

Item number	1689611
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	ABNABE
GTIN	4017918907556
Weight per piece (including packing)	224 g
Weight per piece (excluding packing)	224 g
Customs tariff number	85444210
Country of origin	DE

Technical data

Product properties

Product type	Data cable preassembled
Product family	RJ45 INDUSTRIAL IE8 CAT5
Number of positions	4
Shielded	yes

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Interfaces

Signal type/category	Ethernet CAT5 (IEC 11801)
----------------------	---------------------------

Electrical properties

Rated voltage (III/3)	60 V
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

Mechanical properties

Mechanical data

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

Material specifications

Housing material	PA
Contact material	Copper alloy
Contact surface material	Gold over nickel
Contact carrier material	Thermoplastic
Outer sheath, material	Halogen-free compound, HM 2 in acc. with VDE 0207
Conductor material	Bare Cu litz wires

Connector

Connection 1

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

Connection 2

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

Cable/line

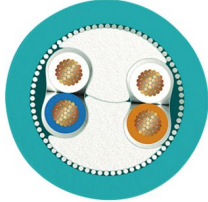
Cable length	5.00 m
--------------	--------

Ethernet [93E]

VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable

1689611

<https://www.phoenixcontact.com/us/products/1689611>

Dimensional drawing	
Cable weight	43 kg/km
Number of positions	4
Shielded	yes
Cable type	Ethernet [93E]
Conductor structure	2x2xAWG26/7, SF/UTP
Signal runtime	4.3 ns/m
Signal speed	0.77 c
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Conductor cross-section	2x 2x 0.14 mm ²
Wire diameter incl. insulation	1 mm -0.2 mm
External cable diameter	5.75 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Material wire insulation	Foam-Skin PE
Single wire, color	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 284 Ω/km
Insulation resistance	≥ 5 GΩ*km
Coupling resistance	≤ 5.00 mΩ/m (at 20 MHz)
Wave impedance	100 Ω ±15 % (at 1 ... 100 MHz)
Cable capacity	nom. 48 nF/km (At 800 Hz)
Nominal voltage, cable	50 V _{rms} 125 V (Peak value, not for high-power applications)
Test voltage Core/Core	1000 V _{rms}
Test voltage Core/Shield	500.00 V _{rms}
Smallest bending radius, fixed installation	30 mm (cable, fixed installation)
Smallest bending radius, movable installation	78 mm (Cable, flexible installation)
Tensile strength	≤ 50 N (temporary) ≤ 10 N (Permanent)
Near end crosstalk attenuation (NEXT)	66 dB/m (with 1 MHz) 57 dB/m (at 4 MHz) 52 dB/m (at 10 MHz)

VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable



1689611

<https://www.phoenixcontact.com/us/products/1689611>

	50 dB/m (at 16 MHz)
	47 dB/m (at 20 MHz)
	45 dB/m (at 31.25 MHz)
	40 dB/m (at 62.5 MHz)
	36 dB/m (at 100 MHz)
Crosstalk attenuation (ACR)	6.57 dB/m (with 1 MHz)
	5.64 dB/m (at 4 MHz)
	5.12 dB/m (at 10 MHz)
	4.89 dB/m (at 16 MHz)
	4.57 dB/m (at 20 MHz)
	4.34 dB/m (at 31.25 MHz)
	3.77 dB/m (at 62.5 MHz)
	3.31 dB/m (at 100 MHz)
Shield attenuation	0.028 dB/m (with 1 MHz)
	0.06 dB/m (at 4 MHz)
	0.085 dB/m (at 10 MHz)
	0.115 dB/m (at 16 MHz)
	0.128 dB/m (at 20 MHz)
	0.162 dB/m (at 31.25 MHz)
	0.23 dB/m (at 62.5 MHz)
	0.29 dB/m (at 100 MHz)
Flame resistance	according to VDE 0482 Part 265-2-1
	according to IEC 332-1
Ambient temperature (operation)	-30 °C ... 80 °C (cable, fixed installation)
Ambient temperature (installation)	-5 °C ... 60 °C

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation) (Cable, fixed installation)	-30 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 60 °C (Cable, flexible installation)
Ambient temperature (operation)	Plug / socket

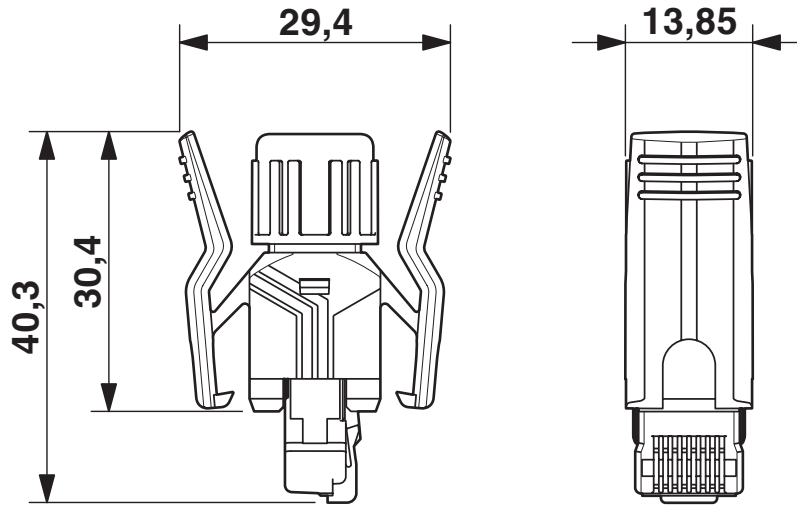
VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable

1689611

<https://www.phoenixcontact.com/us/products/1689611>

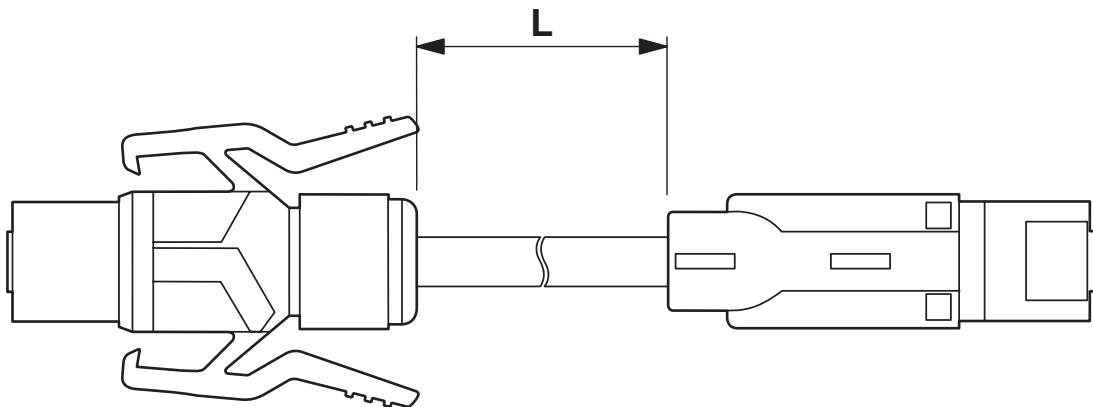
Drawings

Dimensional drawing



RJ45 connector, IP20

Dimensional drawing



RJ45 connector

VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable

1689611

<https://www.phoenixcontact.com/us/products/1689611>



Schematic diagram



Connector pin assignment plug RJ45

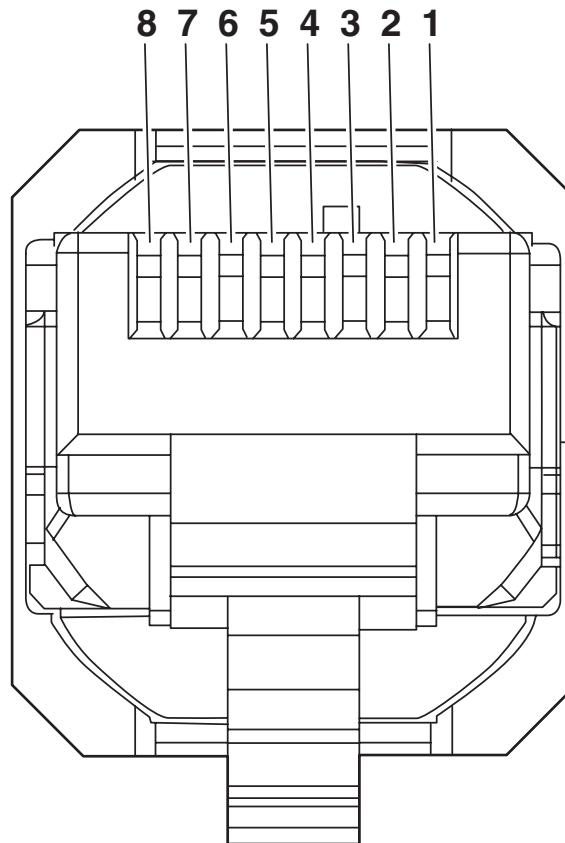
VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable

1689611

<https://www.phoenixcontact.com/us/products/1689611>



Schematic diagram



Connector pin assignment plug RJ45

VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable



1689611

<https://www.phoenixcontact.com/us/products/1689611>

Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

VS-08-LI-VSIP20-RJ45-CF-5,0 - Cable



1689611

<https://www.phoenixcontact.com/us/products/1689611>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

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