

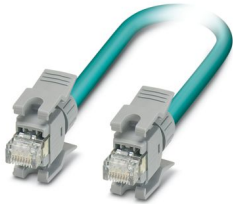
# VS-08-LI-VSIP20-VSIP20-CF-5,0 - Cable



1689608

<https://www.phoenixcontact.com/us/products/1689608>

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

## Commercial data

Item number	1689608
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	ABNABE
GTIN	4017918907549
Weight per piece (including packing)	220.3 g
Weight per piece (excluding packing)	220.3 g
Customs tariff number	85444210
Country of origin	DE

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## 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)
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### Electrical properties

Rated voltage (III/3)	60 V
Transmission medium	Copper

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 750
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### 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
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#### Connection 2

Type	Plug straight RJ45
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### Cable/line

Cable length	5.00 m
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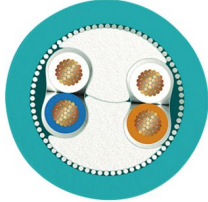
Ethernet [93E]

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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 <sup>2</sup>
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 <sub>rms</sub> 125 V (Peak value, not for high-power applications)
Test voltage Core/Core	1000 V <sub>rms</sub>
Test voltage Core/Shield	500.00 V <sub>rms</sub>
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)

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	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

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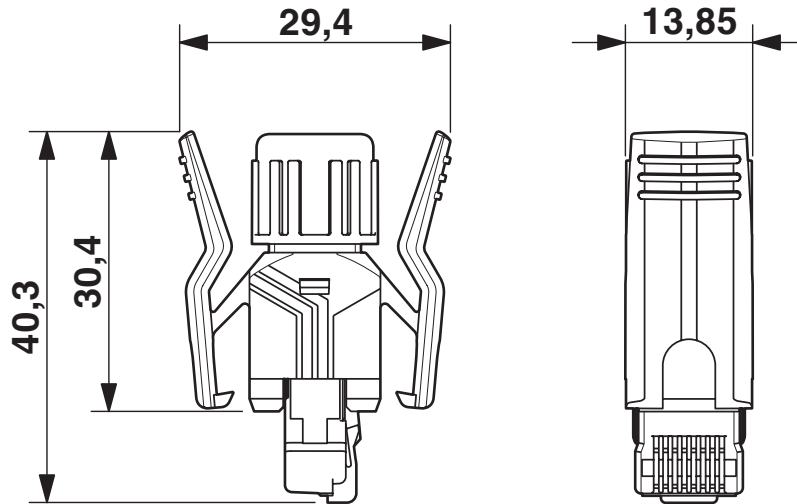
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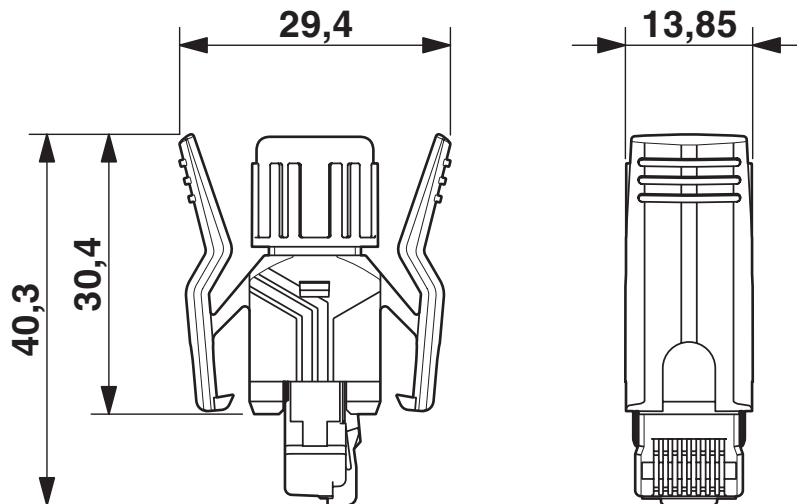
## Drawings

Dimensional drawing



RJ45 connector, IP20

Dimensional drawing



RJ45 connector, IP20

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Schematic diagram



Connector pin assignment plug RJ45

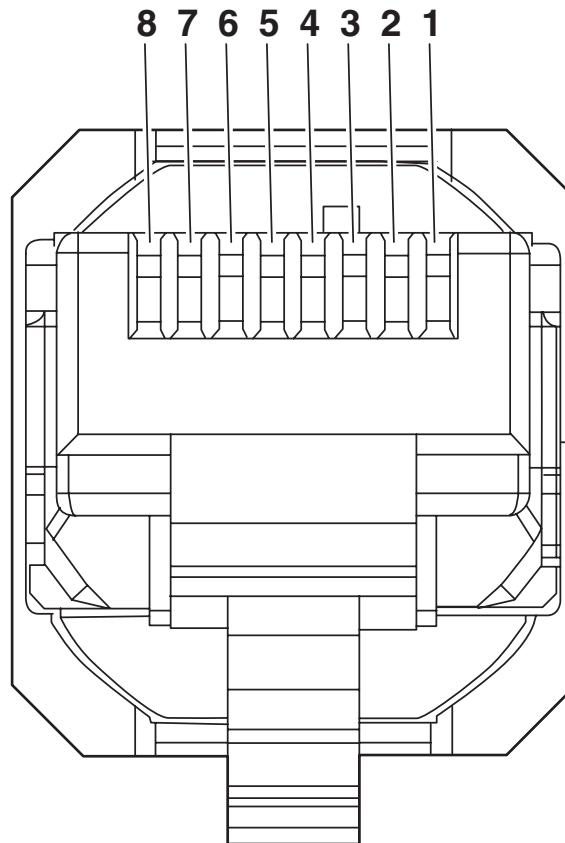
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Schematic diagram



Connector pin assignment plug RJ45

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### EU REACH SVHC

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