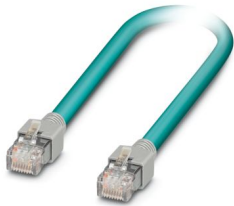


VS-08-LI-RJ45-RJ45-CF-5,0 - Cable

1689624

<https://www.phoenixcontact.com/us/products/1689624>

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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1689624 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | NULL |
| Product key | ABNABE |
| GTIN | 4017918907563 |
| Weight per piece (including packing) | 225.6 g |
| Weight per piece (excluding packing) | 212.1 g |
| Customs tariff number | 85369010 |
| 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 |

Electrical properties

| | |
|---|-----------------------|
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
|---|-----------------------|

Mechanical properties

Mechanical data

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

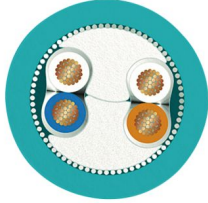
Material specifications

| | |
|--------------------------|------------------|
| Contact material | Copper alloy |
| Contact surface material | Gold over nickel |
| Contact carrier material | Thermoplastic |

Cable/line

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

Ethernet [93E]

| | |
|---------------------------------|--|
| 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 |

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| | |
|---|--|
| 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) 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) |

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| | |
|------------------------------------|--|
| | 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 |
| 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 |

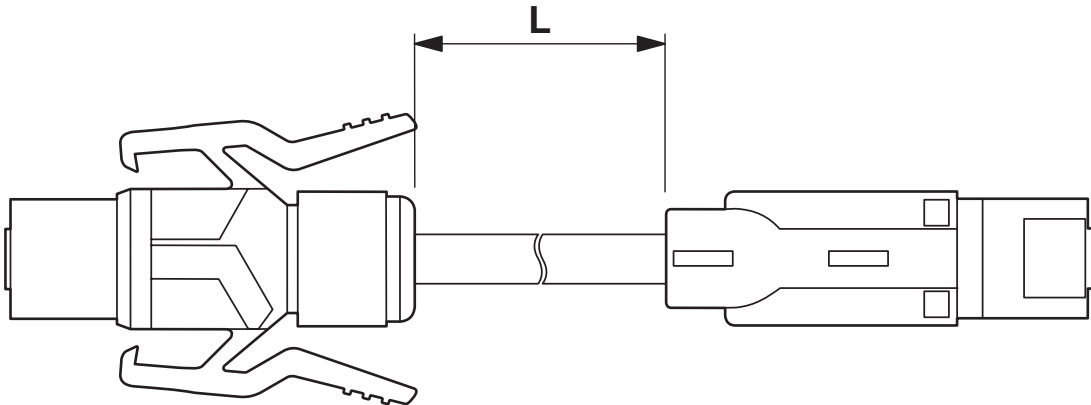
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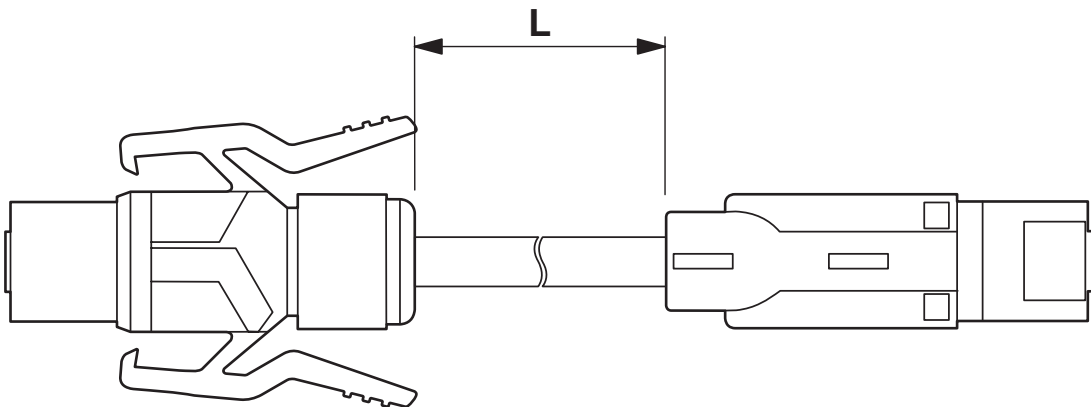
Drawings

Dimensional drawing



RJ45 connector

Dimensional drawing



RJ45 connector

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Schematic diagram



Connector pin assignment plug RJ45

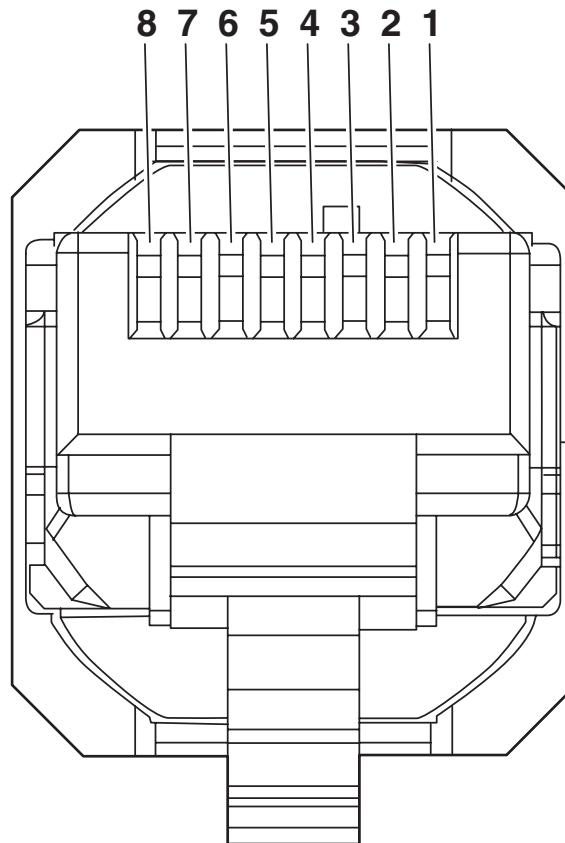
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Schematic diagram



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 |
|---|--------------------|

EU REACH SVHC

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

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