# VS-08-RJ45-10G/Q - RJ45 connector

1419001

https://www.phoenixcontact.com/us/products/1419001

**PHŒNIX CONTACT**

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

## Your advantages

• Easy and time-saving assembly with IDC fast connection technology

• Can be used internationally due to EAC, UL 1863, and CAN/CSA C22.2

• Ideal companion for servicing or repairs in the field: no special tools required for mounting

## Commercial data

| | |
|---|---|
| Item number | 1419001 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB10 |
| Product key | ABNAAE |
| Catalog page | Page 372 (C-2-2019) |
| GTIN | 4046356521567 |
| Weight per piece (including packing) | 12.3 g |
| Weight per piece (excluding packing) | 12.16 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

# VS-08-RJ45-10G/Q - RJ45 connector

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## Technical data

### Product properties

| | |
|---|---|
| Type | RJ45 |
| Product type | Data connector (cable side) |
| Sensor type | Ethernet |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Type | RJ45 |
| Shielded | yes |
| Cable outlet | straight |
| Positions/contacts | 8P8C |

#### Insulation characteristics

| | |
|---|---|
| Overvoltage category | I |
| Degree of pollution | 2 |

### Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 72 V (DC) |
| Rated current | 1.75 A |
| Contact resistance | < 20 mΩ (Contact) |
| | < 100 mΩ (shield) |
| Frequency range | to 500 MHz |
| Insulation resistance | > 500 MΩ |
| Nominal voltage $U_N$ | 48 V |
| Nominal current $I_N$ | 1.75 A |
| Contact resistance per contact pair | < 20 Ω |
| Contact resistance | > 10 mΩ (Wire – IDC) |
| | 0.005 Ω (Litz wires – IDC) |
| Transmission medium | Copper |
| Transmission characteristics (category) | $CAT6_A$ |
| Transmission speed | 10 Gbps |
| Wave impedance | 100 Ω |

### Connection data

#### Connection technology

| | |
|---|---|
| Connection method | Insulation displacement connection |
| Connection cross section AWG | 26 ... 24 (solid) |
| | 26 ... 24 (flexible) |
| Conductor cross section | 0.14 mm² ... 0.22 mm² (solid) |
| | 0.14 mm² ... 0.22 mm² (flexible) |
| Connection in acc. with standard | IEC 60603-7-51 |
| Cable outlet, angle | 180 |

## Dimensions

| | |
|---|---|
| Width | 13.8 mm |
| Height | 17.3 mm |
| Length | 55.5 mm |

## Material specifications

| | |
|---|---|
| Color | black |
| Flammability rating according to UL 94 | V2 |
| Contact material | CuSn |
| Contact surface material | Au/Ni |
| Contact carrier material | PC |
| Locking latch material | PC |
| Material for screw connection | PA |
| Housing material | Plastic |

## Cable/line

| | |
|---|---|
| External cable diameter () | 4.5 mm ... 8 mm |
| External cable diameter | 4.5 mm ... 8 mm |
| Cable cross section | 0.14 mm² |
| Test voltage Core/Core | 1000 V |
| Test voltage Core/Shield | 1500.00 V |
| Wave impedance | 100 Ω |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force per signal contact | < 20.00 N |
| Extraction force per signal contact | < 20 N |

## Environmental and real-life conditions

### Test specification

| | |
|---|---|
| Type of test | Vibration test |
| Specification | IEC 60068-2-6 |
| Frequency | 10-500 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm |
| Acceleration | 50.00 m/s² |
| Test duration | 20.00 s |

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |

## Mounting

| Mounting type | For field assembly |
|---|---|

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## Drawings

Dimensional drawing

max. 55,6

max. 38,2

13,3

17,2
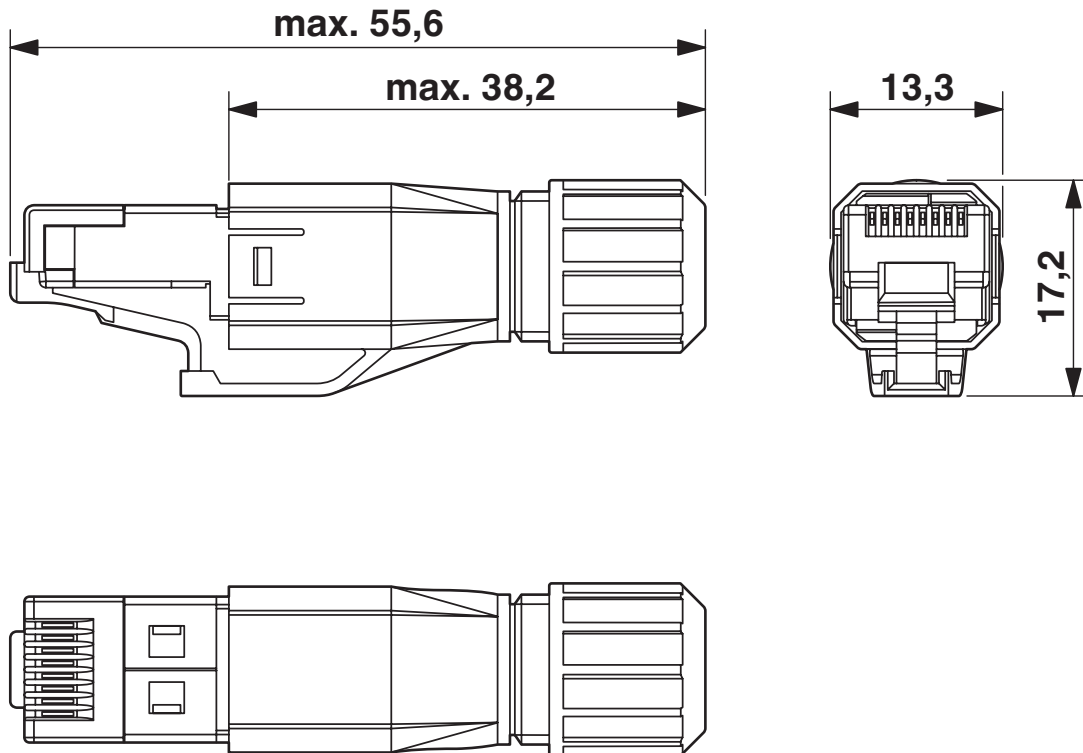
RJ45 connector, IP20

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## Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1419001

**UL Listed**
Approval ID: E335024-20150529

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section mm$^2$ |
|---|---|---|---|---|
| | 57 V | 1.75 A | - | - |

**cUL Listed**
Approval ID: E335024-20150529

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section mm$^2$ |
|---|---|---|---|---|
| | 57 V | 1.75 A | - | - |

**cULus Listed**

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## Classifications

### ECLASS

| ECLASS-11.0 | 27440102 |
|---|---|
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

| ETIM 9.0 | EC002635 |
|---|---|

### UNSPSC

| UNSPSC 21.0 | 39121400 |
|---|---|

## Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|---|---|
| | No hazardous substances above threshold values |

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## Accessories

### VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/us/products/1657407

Stripping tool, for the multi-level stripping of shielded cables

### CUC-K-D1ZNI-S/R4GCHP8 - RJ45 coupling

1086108

https://www.phoenixcontact.com/us/products/1086108

RJ45 coupling, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, material: Metal, connection method: Coupling, cable outlet: straight, Keystone design for use with IP20 and IP67 panel mounting frame or integrated directly into the housing panel, Ethernet

# VS-08-RJ45-10G/Q - RJ45 connector

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## NBC-PP-G1PGY - DIN rail adapter

1041740

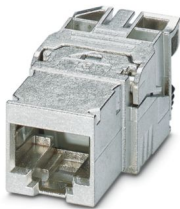https://www.phoenixcontact.com/us/products/1041740



DIN rail adapter, design: Headers with shielding, degree of protection: IP20, material: PC-GF10, connection method: Quick connection, without assembled modules

## CUC-I-J1ZNI-S/R4IDC8 - RJ45 jack insert

1417274

https://www.phoenixcontact.com/us/products/1417274



RJ45 jack insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, material: Metal, connection method: IDC connection, connection cross section: AWG 26- 22, cable outlet: straight, Adapter-free design, Ethernet
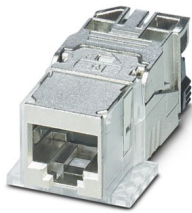
# VS-08-RJ45-10G/Q - RJ45 connector

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## CUC-F-J1ZNI-S/R4IDC8 - RJ45 jack insert

1418984

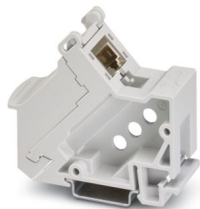https://www.phoenixcontact.com/us/products/1418984

RJ45 jack insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, material: Metal, connection method: IDC connection, connection cross section: AWG 26- 22, cable outlet: straight, Freenet design for use with IP67 panel mounting frame and terminal outlets, Ethernet

## CUC-PP-D1PGY/R4GC8 - DIN rail adapter

1418094

https://www.phoenixcontact.com/us/products/1418094

DIN rail adapter, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT6, material: PC-GF, connection method: Coupling, color: gray

# VS-08-RJ45-10G/Q - RJ45 connector

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https://www.phoenixcontact.com/us/products/1419001

## CUC-K-J1ZNI-S/R4IDC8 - RJ45 jack insert

1419021

https://www.phoenixcontact.com/us/products/1419021

RJ45 jack insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6$_A$, material: Metal, connection method: IDC connection, connection cross section: AWG 26- 22, cable outlet: straight, Keystone design for use with IP20 panel mounting frame or integrated directly into the housing panel, Ethernet

## VS-OE-OE-94B-100,0 - Data cable

1416567

https://www.phoenixcontact.com/us/products/1416567

Data cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), free cable end, on free cable end, cable length: 100 m

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## VS-OE-OE-94B/... - Data cable

1417333

https://www.phoenixcontact.com/us/products/1417333

Data cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

## VS-OE-OE-94F-100,0 - Data cable

1416347

https://www.phoenixcontact.com/us/products/1416347

Data cable, Ethernet $CAT6_A$ (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Tinned copper braided shield), free cable end, on free cable end, cable length: 100 m

# VS-08-RJ45-10G/Q - RJ45 connector

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## VS-OE-OE-94F/... - Data cable

1417359

https://www.phoenixcontact.com/us/products/1417359

Data cable, Ethernet CAT6$_A$ (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Tinned copper braided shield), free cable end, on free cable end, cable length: Free entry (0.5 ... 400 m)

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