# VS-PPC-C1-RJ45-MNNA-PG9-8Q5 - RJ45 connector

1608016

https://www.phoenixcontact.com/us/products/1608016

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IDC



Push-Pull connector

RJ45 connector, RJ45, Ethernet, CAT5 (IEC 11801:2002) (1 Gbps), 8-position, connection method: IDC fast connection, material: Metal, connection cross section: AWG 26- 22, degree of protection: IP65/IP67

## Commercial data

| | |
|---|---|
| Item number | 1608016 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB17 |
| Product key | ABNOAA |
| GTIN | 4046356131681 |
| Weight per piece (including packing) | 70.9 g |
| Weight per piece (excluding packing) | 67.24 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

# Technical data

## Notes

| | |
|---|---|
| General | This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 3.01, Order No. 2252 |

## Product properties

| | |
|---|---|
| Product type | Data connector (cable side) |
| Type | RJ45 |
| Number of positions | 8 |
| Connection profile | RJ45 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Cable outlet | straight |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 72 V (DC) |
| Rated current | 1.75 A |
| Nominal voltage $U_N$ | 48 V |
| Nominal current $I_N$ | 1.75 A |
| Contact resistance | 0.001 Ω (Wire – IDC) |
| | 0.005 Ω (Litz wires – IDC) |
| Transmission medium | Copper |
| Transmission speed | 1 Gbps |
| Transmission characteristics (category) | CAT5 |

## Connection data

### Connection technology

| | |
|---|---|
| Connection method | IDC fast connection |
| Connection cross section AWG | 26 ... 22 (solid) |
| | 26 ... 22 (flexible) |
| Conductor cross-section | 0.13 mm² ... 0.32 mm² (solid) |
| | 0.14 mm² ... 0.36 mm² (flexible) |

## Interfaces

| | |
|---|---|
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 1 Gbps |

## Dimensions

| | |
|---|---|
| Width | 22 mm |

| | |
|---|---|
| Height | 30 mm |
| Length | 72 mm |

## Material specifications

| | |
|---|---|
| Material | Metal |
| Flammability rating according to UL 94 | V0 |
| Seal material, O-ring | NBR |
| Seal material cable seal | TPE |
| Seal material | NBR |
| Seal material, pin connector pattern | NBR |
| Housing material | Metal |
| Housing surface material | nickel-plated |
| Cable seal material | TPE |
| Contact material | CuSn |
| Contact surface material | Au/Ni |
| Contact carrier material | PC |
| O-ring material | NBR |
| Material for screw connection | CuZn |

## Cable/line

| | |
|---|---|
| External cable diameter | 5 mm ... 8 mm |
| External cable diameter | 5 mm ... 8 mm |
| Cable cross section | 0.14 mm² |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 250 |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP65/IP67 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Ambient temperature (assembly) | -5 °C ... 45 °C |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | IEC PAS 61076-3-117 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1608016

**cUL Recognized**
Approval ID: E118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 50 V | 1.75 A | - 22 | - |

**UL Recognized**
Approval ID: E118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 50 V | 1.75 A | - 22 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440290 |
| ECLASS-15.0 | 27440114 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002636 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

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

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP | 6ecc2b5f-8b5a-45ae-a6a1-6ca00e65005d |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.323 kg CO2e |

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