# CUC-IND-J1ST-A/R4LS-LED - RJ45 PCB connectors

1091950

https://www.phoenixcontact.com/us/products/1091950

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RJ45 PCB connectors, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, material: Metal, connection method: THR reflow/THT wave

## Your advantages

- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- 360° shielding ensures reliable transmission, even in industrial applications
- Housing shield springs enable an optimized EMC shielding concept
- With integrated hybrid LEDs as optical status indicators of data transmission
- Enables data transmission rates of up to 10 Gbps
- Automated handling process thanks to reflow capability
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications
- Tray packing

## Commercial data

| | |
|---|---|
| Item number | 1091950 |
| Packing unit | 84 pc |
| Minimum order quantity | 84 pc |
| Sales key | AB12 |
| Product key | ABNADA |
| GTIN | 4055626906447 |
| Weight per piece (including packing) | 5.74 g |
| Weight per piece (excluding packing) | 5.7 g |
| Customs tariff number | 85366930 |
| Country of origin | CN |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Data connector (device side) |
| Type | RJ45 |
| Number of positions | 8 |
| Connection profile | RJ45 |
| Type of packaging | Tray |
| Housing shield springs | No |
| Number of slots | 1 |
| Type | Socket |
| Shielded | yes |
| LED | yes |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated voltage (III/2) | 72 V DC |
| Rated surge voltage | 1.5 kV DC |
| Rated surge voltage (III/3) | 1.5 kV |
| Rated surge voltage | 1 kV DC |
| Rated current | 1.5 A |
| Frequency range | 10 Hz ... 500 Hz |
| Insulation resistance | > 500 MΩ |
| Test voltage | 1 kV DC |
| Test voltage Core/Core | 1 kV DC |
| Test voltage Core/Shield | 1.50 kV DC |
| Transmission medium | Copper |
| Transmission speed | 10 Gbps |
| Power transmission | PoE++ |

## Connection data

### Connection technology

| | |
|---|---|
| Connection method | THR reflow/THT wave |

## Dimensions

| | |
|---|---|
| Width | 16.2 mm |
| Height | 16.5 mm |
| Length | 17.1 mm |
| Installed height | 12.80 mm |
| Orientation to | 90.00 ° |

| | |
|---|---|
| Data pin length | 3.30 mm |

## Material specifications

| | |
|---|---|
| Material | Au (1,27 µm/50 µ") |
| | Ni |
| | Au |
| | Ni |
| | Copper alloy |
| Flammability rating according to UL 94 | V0 |
| Housing material | Metal |
| Housing surface material | Nickel |
| Contact material | Copper alloy |
| Contact surface material | Gold |

## Cable/line

| | |
|---|---|
| Test voltage Core/Core | 1 kV DC |
| Test voltage Core/Shield | 1.50 kV DC |
| Halogen-free | yes |

## 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

| | |
|---|---|
| Frequency | 10-500 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm |
| Acceleration | 50.00 m/s² |
| Test duration | 20.00 s |

Test specification

| | |
|---|---|
| Specification | IEC60068-2-27 |
| Acceleration | 295.00 m/s² |

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 105 °C |
| Ambient temperature (storage/transport) | -40 °C ... 105 °C |

## Mounting

| | |
|---|---|
| Mounting type | THR soldering |

Processing notes

| | |
|---|---|
| Moisture Sensitive Level | MSL 2 |
| Classification temperature $T_c$ | 260 °C |
| Solder cycles in the reflow | 3 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1091950

**cUL Recognized**
Approval ID: FILE E 335024

**UL Recognized**
Approval ID: FILE E 335024

**cULus Recognized**

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440223 |
| ECLASS-12.0 | 27440223 |
| ECLASS-13.0 | 27460201 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC003557 |

### 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.) | No substance above 0.1 wt% |

## Accessories

### CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector

1149846

https://www.phoenixcontact.com/us/products/1149846

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: yellow, Ethernet

### CUC-IND-C1ZNI-S/R4IP10G8 - RJ45 connector

1149847

https://www.phoenixcontact.com/us/products/1149847

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: straight, color: yellow, Ethernet

## CUC-IND-C1ZNI-S/R4IP8 - RJ45 connector

1421126

https://www.phoenixcontact.com/us/products/1421126

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: straight, color: green, Ethernet/PROFINET

## CUC-IND-C1ZNI-S/R4IE8 - RJ45 connector

1421607

https://www.phoenixcontact.com/us/products/1421607

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: green, Ethernet

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## CUC-IND-C1ZNI-S/R4QV6 - RJ45 connector

1406335

https://www.phoenixcontact.com/us/products/1406335

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 6, 100 Mbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, High degree of resistance to vibration; 360° shielding; one-piece design; special tool-free assembly, VARAN

## CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector

1421877

https://www.phoenixcontact.com/us/products/1421877

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: angled, Ethernet

## CUC-IND-C1ZNI-B/R4IE8 - RJ45 connector

1421876

https://www.phoenixcontact.com/us/products/1421876

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: angled, Ethernet

## CUC-IND-C1ZNI-B/R4QV6 - RJ45 connector

1406338

https://www.phoenixcontact.com/us/products/1406338

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 6, 100 Mbps, CAT5 (IEC 11801:2002), material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: angled, High degree of resistance to vibration; 360° shielding; one-piece design; special tool-free assembly, VARAN

## CUC-IND-C1ZNI-T/R4QV6 - RJ45 connector

1406341

https://www.phoenixcontact.com/us/products/1406341

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 6, 100 Mbps, CAT5 (IEC 11801:2002), material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: angled, High degree of resistance to vibration; 360° shielding; one-piece design; special tool-free assembly, VARAN

## CUC-IND-C1ZNI-B/R4IP8 - RJ45 connector

1421127

https://www.phoenixcontact.com/us/products/1421127

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

## CUC-IND-C1ZNI-T/R4IP8 - RJ45 connector

1421128

https://www.phoenixcontact.com/us/products/1421128

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

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