# CUC-SP-J1ST-A/R4LB - RJ45 PCB connectors

1149868

https://www.phoenixcontact.com/us/products/1149868

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

## Your advantages

- The right version for every application. Available with and without LED, single- and multi-port
- The extended temperature range from -40 °C to +85 °C enables use in demanding applications
- Through-hole technology (THT) provides high mechanical stability when connecting the female connector to the PCB

## Commercial data

| | |
|---|---|
| Item number | 1149868 |
| Packing unit | 76 pc |
| Minimum order quantity | 76 pc |
| Sales key | AB12 |
| Product key | ABNADA |
| GTIN | 4063151146429 |
| Weight per piece (including packing) | 8.118 g |
| Weight per piece (excluding packing) | 8.118 g |
| Customs tariff number | 85366930 |
| Country of origin | TW |

# 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 |

Data management status

| | |
|---|---|
| Article revision | 00 |

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 | THT wave |

## Dimensions

| | |
|---|---|
| Width | 15.9 mm |
| Height | 13.6 mm |
| Length | 21.2 mm |
| Installed height | 13.70 mm |

| | |
|---|---|
| Orientation to | 90.00 ° |
| Data pin length | 3.25 mm |

## Material specifications

| | |
|---|---|
| Material | Au (0.152 µm/6 µ") (Metal surface contact area (top layer)) |
| | Ni (1.27 µm/50 µ") (Metal surface contact area (middle layer)) |
| | Ni (1.27 µm/50 µ") (Metal surface soldering area (middle layer)) |
| | Copper alloy (Housing (shielding)) |
| Flammability rating according to UL 94 | V0 |
| Housing material | Metal |
| Housing surface material | Ni |
| Contact material | Phosphor bronze |
| Contact surface material | Gold |
| Contact carrier material | PA 9T GF |

## Cable/line

| | |
|---|---|
| Test voltage Core/Core | 1 kV DC |
| Test voltage Core/Shield | 1.50 kV DC |
| Halogen-free | no |
| Flame resistance | UL 94 V0 |

## 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 ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Standards and regulations

| | |
|---|---|
| Flame resistance | UL 94 V0 |

## Mounting

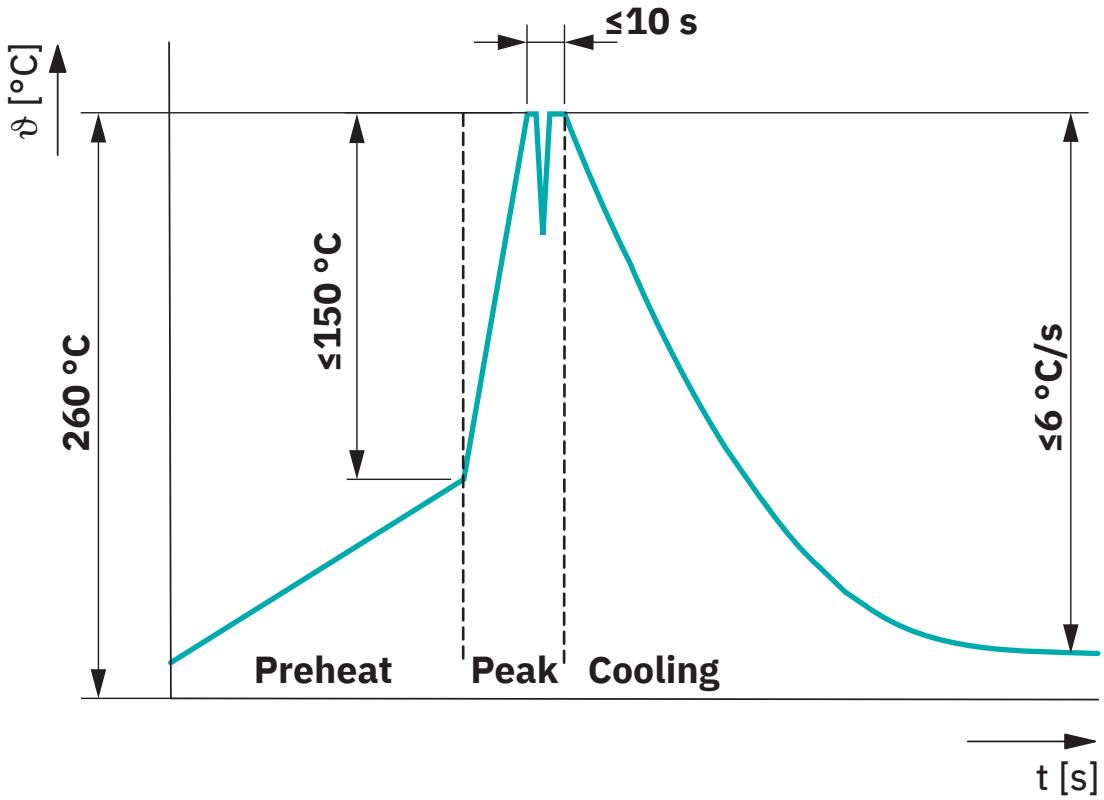
| | |
|---|---|
| Mounting type | Wave soldering |

### Processing notes

| | |
|---|---|
| Classification temperature $T_c$ | 260 °C |

## Drawings

Diagram




Classification wave soldering profile

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1149868

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

**UL Recognized**
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## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002637 |

### 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% |




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