# CUC-SP-J1ST-A/R4LT-LED - RJ45 PCB connector

1149867

https://www.phoenixcontact.com/us/products/1149867

**PHŒNIX CONTACT**

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RJ45 PCB connector, number of positions: 8, 10 Gbps, 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 | 1149867 |
| Packing unit | 80 pc |
| Minimum order quantity | 80 pc |
| Sales key | AB12 |
| Product key | ABNADA |
| GTIN | 4063151145866 |
| Weight per piece (including packing) | 4.95 g |
| Weight per piece (excluding packing) | 4.5 g |
| Customs tariff number | 85366930 |
| Country of origin | TW |

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## Technical data

### Product properties

| | |
|---|---|
| Product type | Data connector (device side) |
| Number of positions | 8 |
| Connection profile | RJ45 |
| Housing shield springs | No |
| Number of slots | 1 |
| 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 |
| Transmission speed | 10 Gbps |
| Power transmission | PoE++ |

### Connection data

#### Connection technology

| | |
|---|---|
| Connection method | THT wave |

### Dimensions

| | |
|---|---|
| Width | 16.18 mm |
| Height | 11.3 mm |
| Length | 15 mm |
| Installed height | 11.30 mm |
| Orientation to PCB | 90.00 ° |
| Data pin length | 2.40 mm |

### Material specifications

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

## 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 (when plugged in) | IP20 |
| Degree of protection (not plugged in) | 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 |

## Packaging specifications

| | |
|---|---|
| Type of packaging | Tray |

## Drawings

Diagram
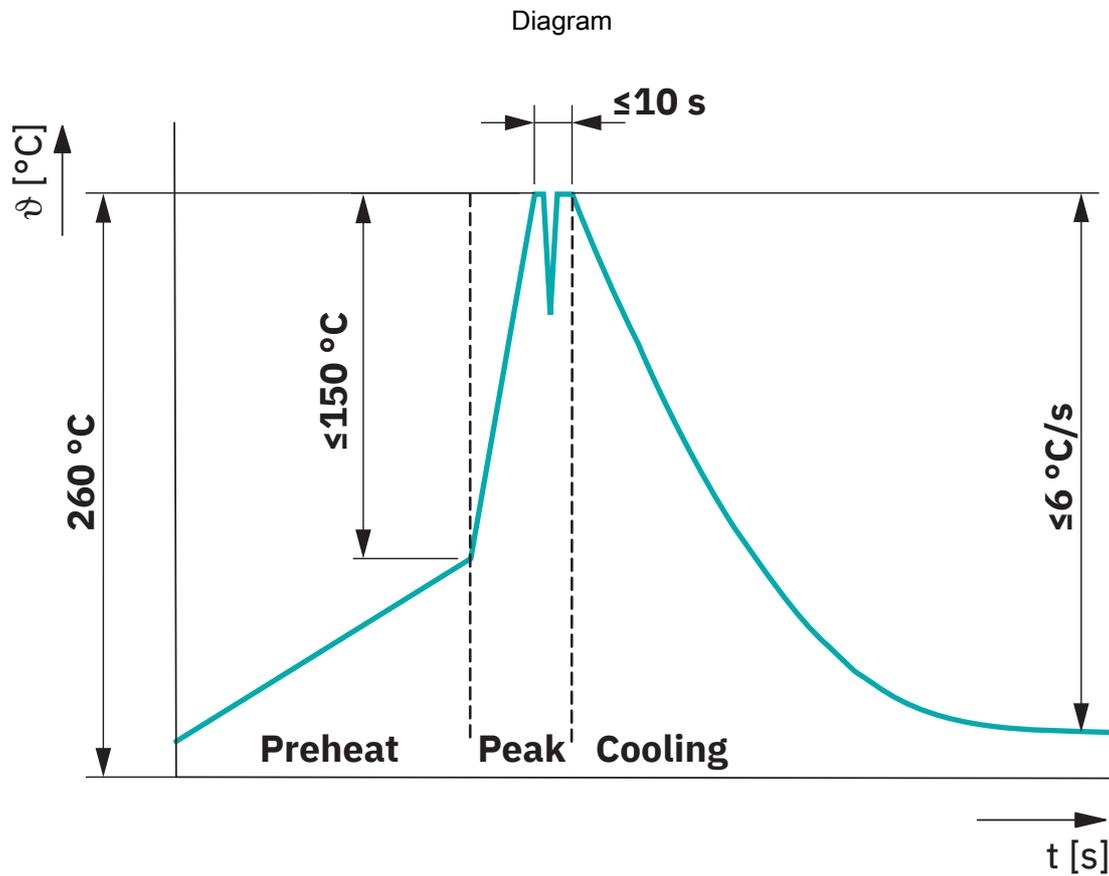


Classification wave soldering profile

## Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1149867

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

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 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% |