

CUC-SP-J1ST-A/R4LT - RJ45 PCB connectors



1149870

<https://www.phoenixcontact.com/us/products/1149870>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



RJ45 PCB connectors, design: RJ45, 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 | 1149870 |
| Packing unit | 80 pc |
| Minimum order quantity | 80 pc |
| Sales key | AB12 |
| Product key | ABNADA |
| GTIN | 4063151144883 |
| Weight per piece (including packing) | 4.689 g |
| Weight per piece (excluding packing) | 4.2 g |
| Customs tariff number | 85366930 |
| Country of origin | TW |

1149870

<https://www.phoenixcontact.com/us/products/1149870>

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 | 16.18 mm |
| Height | 11.3 mm |
| Length | 15 mm |
| Installed height | 11.30 mm |

1149870

<https://www.phoenixcontact.com/us/products/1149870>

| | |
|-----------------|---------|
| Orientation to | 90.00 ° |
| Data pin length | 2.40 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/s ² |
| Test duration | 20.00 s |

Test specification

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

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Standards and regulations

CUC-SP-J1ST-A/R4LT - RJ45 PCB connectors



1149870

<https://www.phoenixcontact.com/us/products/1149870>

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

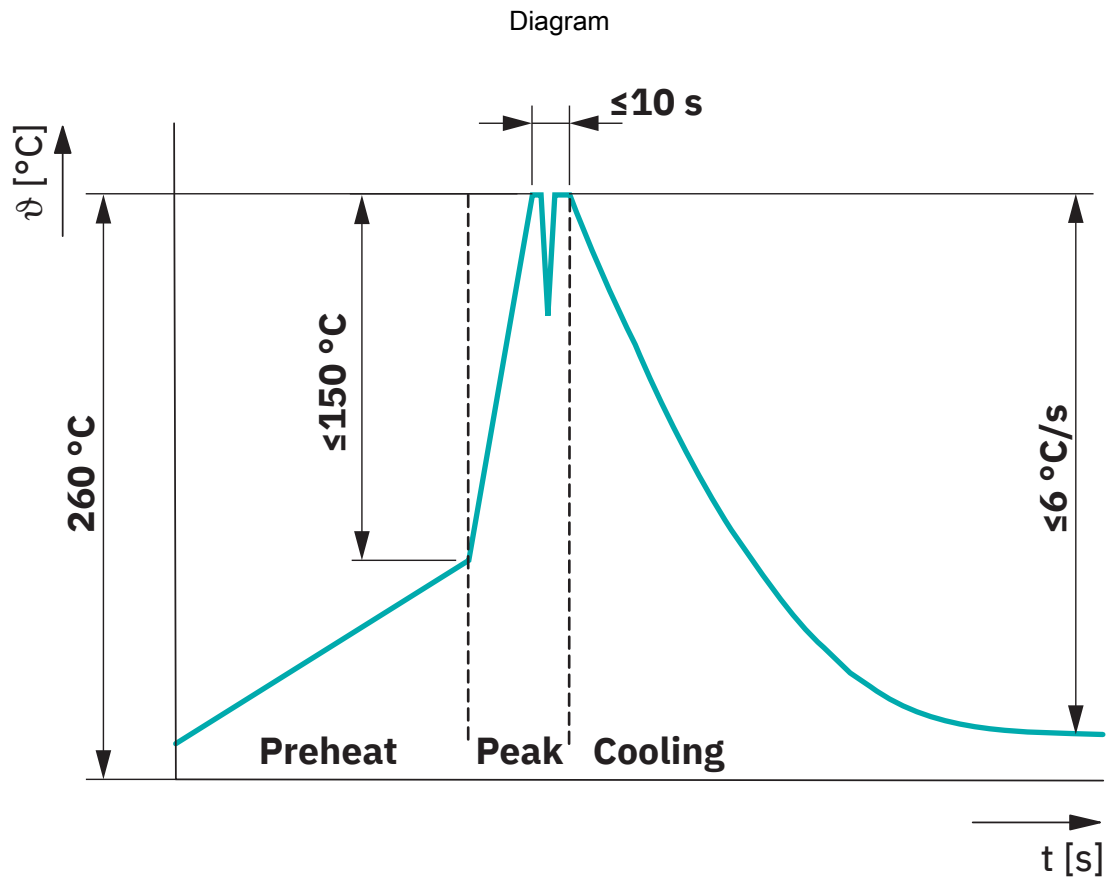
Mounting

| | |
|---------------|----------------|
| Mounting type | Wave soldering |
| Thread type | () |

Processing notes

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

Drawings



Classification wave soldering profile

CUC-SP-J1ST-A/R4LT - RJ45 PCB connectors



1149870

<https://www.phoenixcontact.com/us/products/1149870>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1149870>



cUL Recognized
Approval ID: FILE E 335024



UL Recognized
Approval ID: FILE E 335024

cULus Recognized

CUC-SP-J1ST-A/R4LT - RJ45 PCB connectors



1149870

<https://www.phoenixcontact.com/us/products/1149870>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

CUC-SP-J1ST-A/R4LT - RJ45 PCB connectors



1149870

<https://www.phoenixcontact.com/us/products/1149870>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com