# CUC-IND-J1ST-S/R4LS-PG - Modular RJ45 PCB connectors

1099279

https://www.phoenixcontact.com/us/products/1099279

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 180 °, Shielded, shield springs, number of positions: 8, PoE++, THT, THD, Wave, IP20

## 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
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications

## Commercial data

| | |
|---|---|
| Item number | 1099279 |
| Packing unit | 84 pc |
| Minimum order quantity | 84 pc |
| Sales key | AB12 |
| Product key | ABNADA |
| GTIN | 4055626947457 |
| Weight per piece (including packing) | 5.097 g |
| Weight per piece (excluding packing) | 5 g |
| Customs tariff number | 85366930 |
| Country of origin | CN |

## Technical data

### Product properties

| | |
|---|---|
| Slots | 1x1 single-port |
| Orientation to PCB | 180.00 ° |
| Type | THD |
| Connection profile | RJ45 |
| Number of positions | 8 (8P8C) |
| Type of locking | Snap-in locking |
| Shielding | Shielded, shield springs |
| Processing notes | Wave |
| Power transmission | PoE++ (according to IEEE 802.3bt) |
| Power PSE | 90 W (Class 8 in accordance with IEEE 802.3bt) |
| Power PD | 71 W (Class 4 in accordance with IEEE 802.3bt) |

### Electrical properties

| | |
|---|---|
| Pollution degree | 2 |
| Overvoltage category | I (IEC 60664-1) |
| Rated voltage | 72 V DC |
| Rated surge voltage | 1.5 kV DC (IEC 60664-1) |
| Rated current | 1.5 A (IEC 60603-7) |
| Insulation resistance | > 500 MΩ (IEC 60603-7) |
| Test voltage (Contact/contact) | 1.5 kV DC (IEC 60603-7) |
| Test voltage (Contact/shield) | 1.5 kV DC (IEC 60603-7) |

### Dimensions

| | |
|---|---|
| Length | 16.8 mm |
| Width | 18 mm |
| Height | 17.9 mm |
| Installed height | 14.30 mm |
| Data pin length | 3.18 mm |

### Material specifications

| | |
|---|---|
| Material Contact carrier | PA |
| Flame resistance | UL 94 V0 |
| Halogen-free | yes |
| Material Housing | Copper alloy |
| Material Housing coating | Ni |
| Material Housing pin coating (top layer/selective) | Ni |
| Material Contact | Copper alloy |
| Material Solder contact coating (intermediate layer) | Ni |
| Material Solder contact coating (top layer/selective) | Au |
| Material Plug contact coating (top layer/selective) | Au (1.27 µm/50 µ") |

| | |
|---|---|
| Material Plug contact coating (intermediate layer) | Ni |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | > 750 (IEC 60603-7) |
| Insertion force | < 20 N (IEC 60603-7) |
| Withdrawal force | < 20 N (IEC 60603-7) |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 105 °C |
| Ambient temperature (storage/transport) | -40 °C ... 105 °C |
| Degree of protection (plugged in) | IP20 (IEC 60603-7) |
| Degree of protection (Not plugged in) | IP20 (IEC 60603-7) |

Test specification for vibration - sine (IEC 60068-2-6)

| | |
|---|---|
| Acceleration | 200 m/s² |
| Frequency | 20 - 2000 Hz |
| Amplitude | 1 mm |
| Cycles | 10 cycles per axis, 20 sweeps |
| Sweep speed | 1 octave/min |

Test specification Shock (IEC 60068-2-27)

| | |
|---|---|
| Pulse shape | Half-sine |
| Acceleration | 500 m/s² |

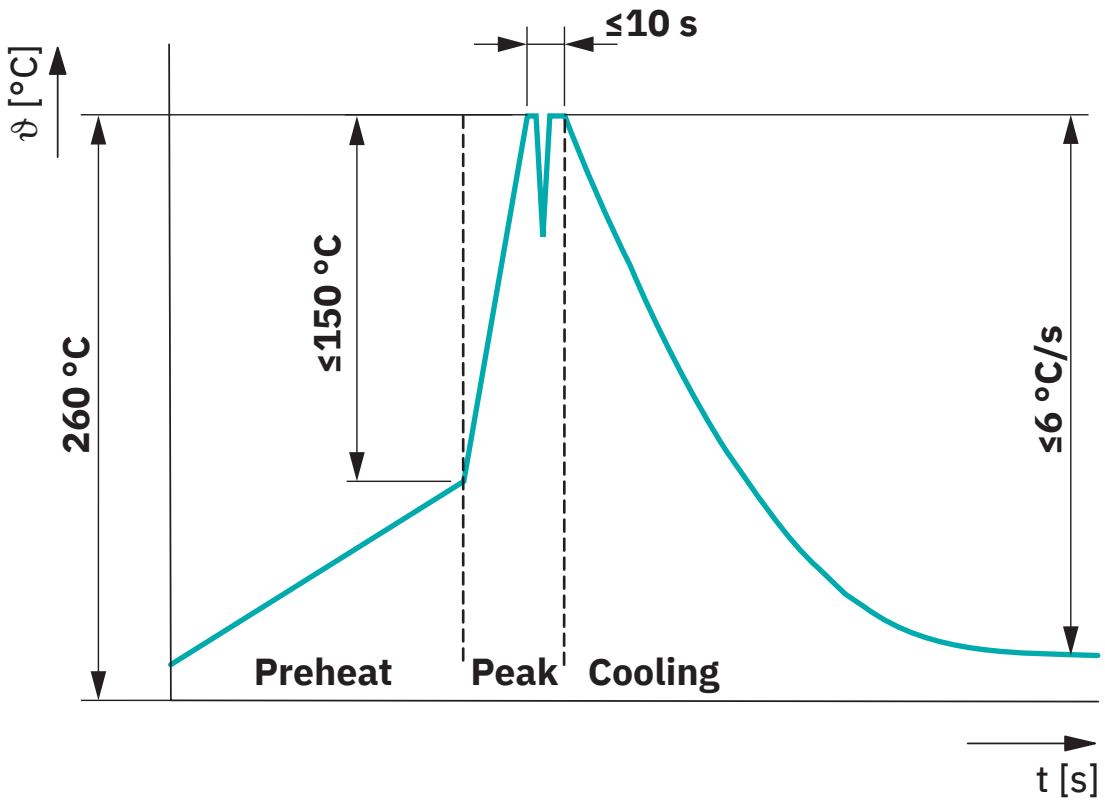
## Mounting

Processing notes

| | |
|---|---|
| Mounting type | THT |

## Drawings

Diagram




Classification wave soldering profile

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1099279

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

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

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.11 kg CO2e |


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