

1337238  
<https://www.phoenixcontact.com/us/products/1337238>

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

Your advantages

- The right version for every application. Available with and without LED, single- and multi-port
- The reflow capability enables efficient, cost-optimized processing
- High standoffs allow ideal thermal airflow during processing
- Tape-on-reel packaging is perfect for automated processing
- The extended temperature range from -50°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                          | 1337238       |
| Packing unit                         | 120 pc        |
| Minimum order quantity               | 120 pc        |
| Sales key                            | AB12          |
| Product key                          | ABNADA        |
| GTIN                                 | 4063151638436 |
| Weight per piece (including packing) | 7.41 g        |
| Weight per piece (excluding packing) | 7.34 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           | Tape and Reel                |
| [W] tape width              | 44.00 mm                     |
| [A] coil diameter           | 330.00 mm                    |
| [W2] coil overall dimension | 49.10 mm                     |
| Housing shield springs      | No                           |
| Number of slots             | 1                            |
| Type                        | Socket                       |
| Shielded                    | 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  | 16.8 mm |
| Height | 13.6 mm |
| Length | 19 mm   |

# CUC-SP-J1ST-S/R4LT-THR - RJ45 PCB connectors



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|                  |          |
|------------------|----------|
| Installed height | 15.90 mm |
| Orientation to   | 180.00 ° |
| Data pin length  | 2.00 mm  |

## Material specifications

|  |                      |
|--|----------------------|
| Material                               | Au (1,27 µm/50 µ")   |
|  | Sn (2.54 µm/100 µ")  |
|  | Ni (1,27 µm/50 µ")   |
|  | Ni (1.27 µm / 50 µ") |
|  | Stainless steel      |
|  | LCP                  |
| Flammability rating according to UL 94 | V0                   |
| Housing material                       | Metal                |
| Contact material                       | Phosphor bronze      |
| Contact surface material               | Gold over nickel     |
| Contact carrier material               | LCP                  |

## 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/s <sup>2</sup> |
| Test duration | 20.00 s                |

### Test specification

|               |                         |
|---------------|-------------------------|
| Specification | IEC60068-2-27           |
| Acceleration  | 295.00 m/s <sup>2</sup> |

### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -50 °C ... 85 °C |
| Ambient temperature (storage/transport) | -50 °C ... 85 °C |

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## Mounting

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

## Processing notes

|   |        |
|---|--------|
| Process                                   | THR    |
| Moisture Sensitive Level                  | MSL 1  |
| Classification temperature T <sub>c</sub> | 260 °C |
| Solder cycles in the reflow               | 3      |

# CUC-SP-J1ST-S/R4LT-THR - RJ45 PCB connectors



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1337238>



**UL Recognized**

Approval ID: FILE E 335024

# CUC-SP-J1ST-S/R4LT-THR - RJ45 PCB connectors



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440390 |
| ECLASS-12.0 | 27440390 |
| ECLASS-13.0 | 27460201 |

### 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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## Accessories

### VS-08-RJ45-10G/Q - RJ45 connector

1419001

<https://www.phoenixcontact.com/us/products/1419001>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

### VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

<https://www.phoenixcontact.com/us/products/1656725>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet



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## VS-08-RJ45-5-Q/IP20 BK - RJ45 connector

1658008

<https://www.phoenixcontact.com/us/products/1658008>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

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## VS-PN-RJ45-5-Q/IP20 - RJ45 connector

1658435

<https://www.phoenixcontact.com/us/products/1658435>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5, material: Plastic, connection method: Insulation displacement connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

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## 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<sub>A</sub>, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: straight, color: yellow, Ethernet

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## 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<sub>A</sub>, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: yellow, Ethernet

# CUC-SP-J1ST-S/R4LT-THR - RJ45 PCB connectors



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## 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

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## 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

# CUC-SP-J1ST-S/R4LT-THR - RJ45 PCB connectors



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## 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

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## 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-SP-J1ST-S/R4LT-THR - RJ45 PCB connectors



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## 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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## 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

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