

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



1149874

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RJ45 PCB connectors, degree of protection: IP20, 10 Gbps, material: Metal, connection method: SMD reflow

## Your advantages

- The reflow capability enables efficient, cost-optimized processing
- Tape-on-reel packaging is perfect for automated processing
- The extended temperature range from -40 °C to +85 °C enables use in demanding applications

## Commercial data

Item number	1149874
Packing unit	1 pc
Minimum order quantity	110 pc
Sales key	AB12
Product key	ABNADB
GTIN	4063151146337
Weight per piece (including packing)	7.727 g
Weight per piece (excluding packing)	7.727 g
Customs tariff number	85366930
Country of origin	TW

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## Technical data

### Product properties

Type	RJ45
Product type	Data connector (device side)
Type of packaging	Tape and Reel
[W] tape width	44.00 mm
[A] coil diameter	330.00 mm
[W2] coil overall dimension	49.00 mm
Housing shield springs	No
Connection profile	RJ45
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	1.5 kV DC
Transmission medium	Copper
Transmission speed	10 Gbps
Power transmission	PoE++

### Connection data

#### Connection technology

Connection method	SMD reflow
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### Dimensions

Width	18.1 mm
Height	15 mm
Length	20.85 mm
Installed height	11.80 mm

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Orientation to	90.00 °
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### Material specifications

Material	Au (0.152 µm / 6 µ")
	Ni (1.27 µm / 50 µ")
	Ni (1.27 µm / 50 µ")
	Sn (2.54 µm/100 µ")
	Copper alloy
Flammability rating according to UL 94	V0
Housing surface material	Nickel
Contact material	Phosphor bronze
Contact surface material	Gold
Contact carrier material	PA 9T GF
Housing material	Metal

### Cable/line

Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.5 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 m/s <sup>2</sup>
Test duration	20 s

#### Test specification

Specification	IEC60068-2-27
Acceleration	295 m/s <sup>2</sup>

#### Ambient conditions

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

### Standards and regulations

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Flame resistance	UL 94 V0
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## Mounting

Mounting type	SMD soldering
Connection method	SMD reflow

## Processing notes

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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1149874>



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



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



**EAC**  
Approval ID: B.01687

**cULus Recognized**

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## Classifications

### ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440223
ECLASS-13.0	27440223

### ETIM

ETIM 8.0	EC003557
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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