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RJ45 PCB connectors, 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	1149871
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151144579
Weight per piece (including packing)	7.77 g
Weight per piece (excluding packing)	7.77 g
Customs tariff number	85366930
Country of origin	TW

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



1149871

<https://www.phoenixcontact.com/us/products/1149871>

## Technical data

### Product properties

Type	RJ45
Product type	Data connector (device side)
Number of positions	8
Type of packaging	Tray
Housing shield springs	No
Connection profile	RJ45
Number of slots	1
Type	Socket
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
Power transmission	PoE++

### Connection data

#### Connection technology

Connection method	THT wave
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### Dimensions

Width	16.15 mm
Height	16.7 mm
Length	16.5 mm
Installed height	16.70 mm
Orientation to	180.00 °

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Data pin length	3.25 mm
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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")
	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	1.50 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 <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)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Standards and regulations

Flame resistance	UL 94 V0
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## Mounting

Mounting type	Wave soldering
Processing notes	
Classification temperature T <sub>c</sub>	260 °C

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1149871>



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



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

**cULus Recognized**

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	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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