

1149866  
<https://www.phoenixcontact.com/us/products/1149866>

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Modular RJ45 PCB connectors, design: THD, number of positions: 8 (8P8C), 10 Gbps, degree of protection: IP20, connection method: Female, Tray

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	1149866
Packing unit	76 pc
Minimum order quantity	76 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151146146
Weight per piece (including packing)	8.21 g
Weight per piece (excluding packing)	8.21 g
Customs tariff number	85366930
Country of origin	TW

# CUC-SP-J1ST-A/R4LB-LED - Modular RJ45 PCB connectors



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## Technical data

### Product properties

Product type	Data connector (device side)
Sensor type	Universal
Number of positions	8
Note number of positions	8P8C
Connection profile	RJ45
Housing shield springs	No
Number of slots	1
Shielded	yes
LED	yes

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC
Rated current	1.5 A
Frequency range	10 Hz ... 500 Hz
Insulation resistance	> 500 MΩ
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

### Connection data

#### Connection technology

Connection method	Female
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### Signaling

Status display present	yes
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### Dimensions

Width	15.9 mm
Height	17.3 mm
Length	21.2 mm
Installed height	13.70 mm
Orientation to PCB	90.00 °
Data pin length	3.25 mm

### Material specifications

Material Metal surface contact area (top layer)	Au
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Material Metal surface contact area (middle layer)	Ni (1,270 µm min / 50 µ" min) (Housing (shielding))
Material Metal surface soldering area (middle layer)	Ni (1.27 µm/50 µ")
Material Metal surface soldering area (top layer)	Au
Material	Copper alloy (Housing (shielding))
	Metal
Material Contact	Phosphor bronze
Material	PA

## 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	< 20 N
Withdrawal force	< 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 (when plugged in)	IP20
Degree of protection (not plugged in)	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

### Processing notes

Classification temperature T <sub>c</sub>	260 °C
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## Packaging specifications

Type of packaging	Tray
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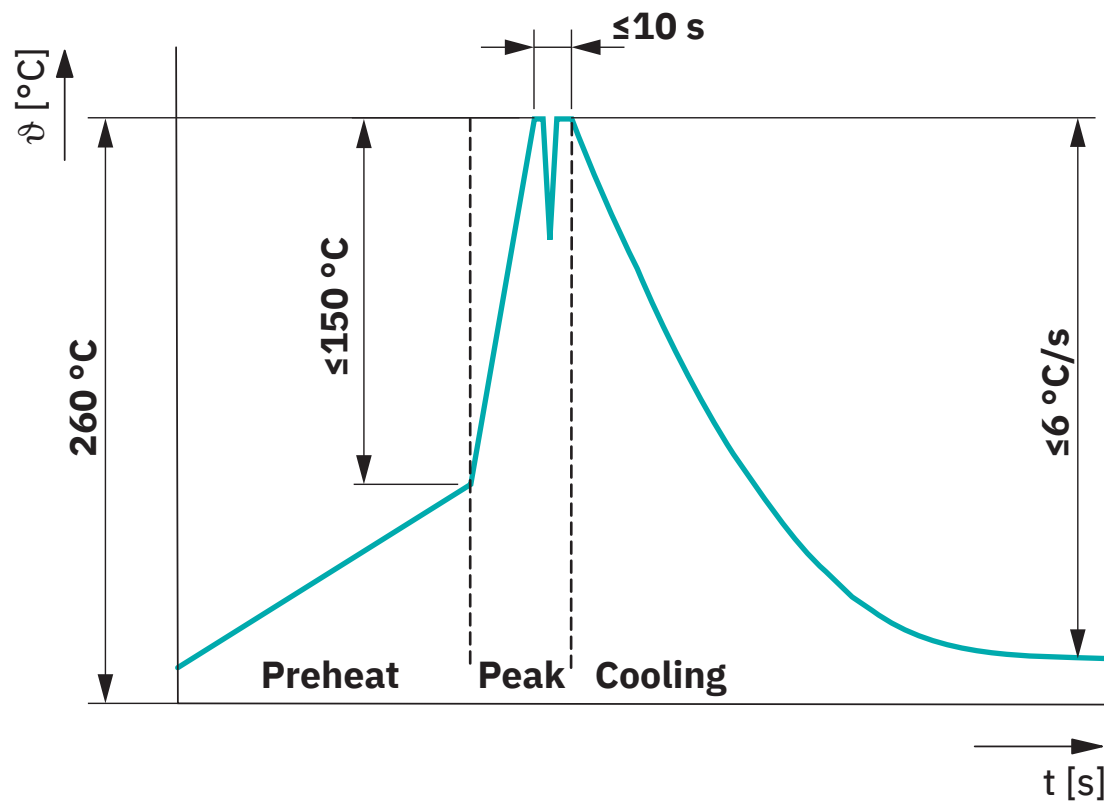


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## Drawings

Diagram



Classification wave soldering profile

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1149866>



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



**UL Recognized**  
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## Classifications

### ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

### ETIM

ETIM 9.0	EC002637
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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