

# CUC-SP-J1ST-A/R4LT-THR-LED - Modular RJ45 PCB connectors



1337243

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab up, Shielded, LED (green, yellow), number of positions: 8, 10 Gbps, PoE++, THT-THR, Reflow, type of packaging: Tape and Reel

## 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 ... +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	1337243
Packing unit	120 pc
Minimum order quantity	120 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151638559
Weight per piece (including packing)	6.879 g
Weight per piece (excluding packing)	6.879 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

Product type	Data connector (device side)
Slots	1x1 single-port
Orientation to PCB	90.00 °
Type	THD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking Tab up
Shielding	Shielded
Status display	LED (green, yellow)
application range	Reflow
Type of packaging	Tape and Reel
Transmission speed	10 Gbps
PoE/PoE+	PoE++
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

Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	1.5 A (IEC 60603-7)
Frequency range	10 Hz ... 500 Hz
Test voltage	1.5 kV DC IEC 60603-7 (Contact - contact)
	1.5 kV DC IEC 60603-7 (Contact - shield)
Insulation resistance	> 500 MΩ (IEC 60603-7)
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

### Connection data

Connection technology	
Connection method	Female

### Signaling

Status display	LED (green, yellow)
Status display present	yes

### Dimensions

Width	16.8 mm
Height	16.6 mm
Length	16.2 mm

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Installed height	13.70 mm
Orientation to PCB	90.00 °
Data pin length	2.00 mm

## Material specifications

Material Plug contact coating (top layer/selective)	Au (1.27 µm/50 µ")
Material Plug contact coating (intermediate layer)	Ni (1.27 µm/50 µ")
Material Solder contact coating (top layer/selective)	Sn (2.54 µm / 100 µ")
Material Solder contact coating (intermediate layer)	Ni (1.27 µm/50 µ")
Material Contact	Phosphor bronze
Material Housing pin coating (top layer/selective)	Sn
Material Contact carrier	LCP (Housing (female/insert))

## Cable/line

Shielding	Shielded
Halogen-free	yes
Flame resistance	UL 94 V0

## 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

### 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 (IEC 60603-7)
Degree of protection (not plugged in)	IP20 (IEC 60603-7)
Ambient temperature (operation)	-50 °C ... 85 °C
Ambient temperature (storage/transport)	-50 °C ... 85 °C

## Standards and regulations

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Flame resistance	UL 94 V0
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## Mounting

Mounting type	THT-THR
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## Processing notes

Process	THR
Moisture Sensitive Level	MSL 1
Classification temperature $T_c$	260 °C
Solder cycles in the reflow	3

## Packaging specifications

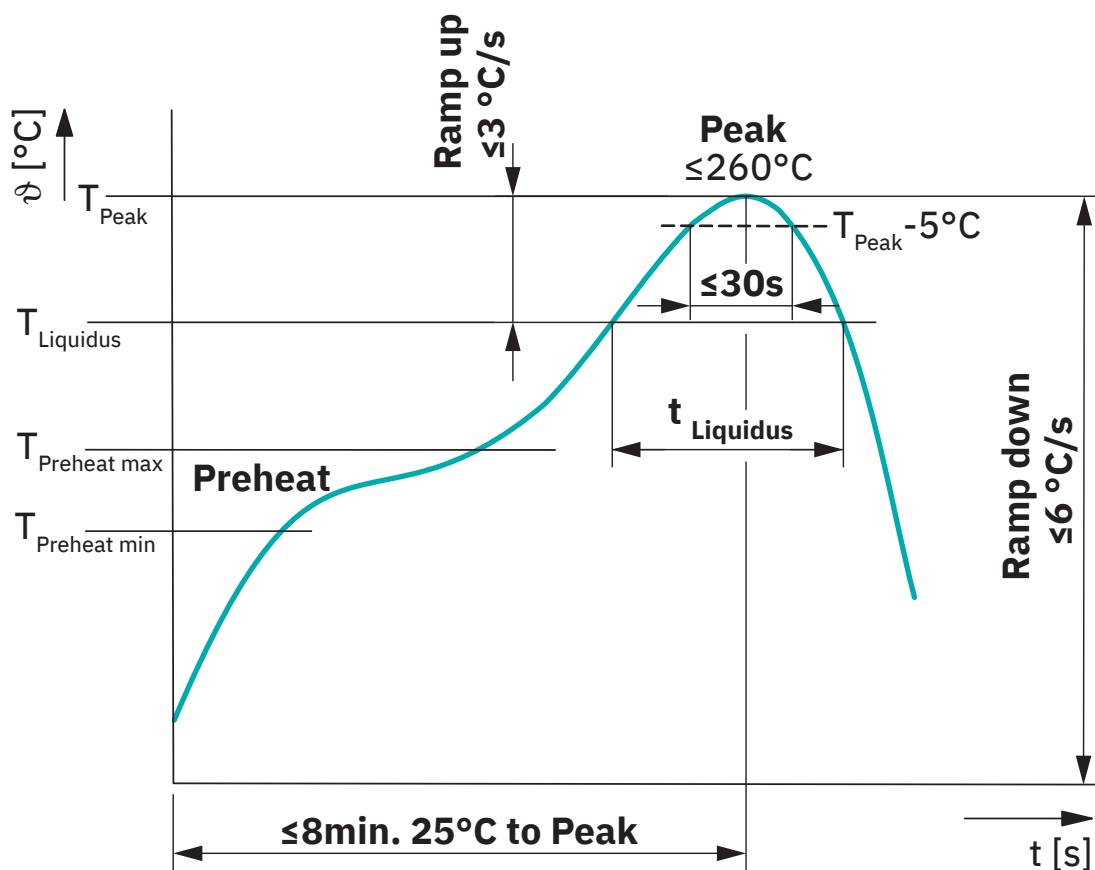
Type of packaging	Tape and Reel
[W] tape width	44 mm
[W2] coil overall dimension	49.1 mm
[A] coil diameter	330 mm

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## Drawings

Diagram



Classification reflow soldering profile

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## Approvals

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**UL Recognized**

Approval ID: FILE E 335024

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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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