

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



1149871

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 180 °, Shielded, LED (green, yellow), number of positions: 8, 10 Gbps, PoE++, THT, THD, Wave, IP20, type of packaging: 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	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

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## Technical data

### Product properties

Slots	1x1 single-port
Orientation to PCB	180.00 °
Type	THD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking
Shielding	Shielded
Status display	LED (green, yellow)
Processing notes	Wave
Type of packaging	Tray
Transmission speed	10 Gbps
Power transmission	PoE++ (according to IEEE 802.3bt)
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

Pollution degree	2
Overvoltage category	I (IEC 60664-1)
Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	1.5 A (IEC 60603-7)
Insulation resistance	> 500 M $\Omega$ (IEC 60603-7)
Test voltage (Contact/contact)	1.5 kV DC (IEC 60603-7)
Test voltage (Contact/shield)	1.5 kV DC (IEC 60603-7)

### Dimensions

Length	16.7 mm
Width	16.15 mm
Height	20.55 mm
Installed height	16.70 mm
Data pin length	3.25 mm

### Material specifications

Material Contact carrier	PA
Flame resistance	UL 94 V0
Halogen-free	no
Material Housing	Copper alloy
Material Housing coating	Ni (0,508 $\mu\text{m}$ / 20 $\mu\text{m}$ )
Material Housing pin coating (top layer/selective)	Ni (0,508 $\mu\text{m}$ / 20 $\mu\text{m}$ )
Material Contact	Phosphor bronze
Material Solder contact coating (intermediate layer)	Ni (1.27 $\mu\text{m}$ /50 $\mu\text{m}$ )

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Material Solder contact coating (top layer/selective)	Au (Flash)
Material Plug contact coating (top layer/selective)	Au (0,152 µm / 6 µ")
Material Plug contact coating (intermediate layer)	Ni (1.27 µm/50 µ")

## 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

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection (plugged in)	IP20 (IEC 60603-7)
Degree of protection (Not plugged in)	IP20 (IEC 60603-7)

### Test specification for vibration - sine

Acceleration	50 m/s <sup>2</sup>
Amplitude	0.35 mm
Sweep speed	1 octave/min

## Mounting

### Processing notes

Mounting type	THT
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## Drawings



Classification wave soldering profile

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## Approvals

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



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## Classifications

### ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

### ETIM

ETIM 10.0	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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)