

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



1149611

<https://www.phoenixcontact.com/us/products/1149611>

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 180 °, Shielded, number of positions: 8, 10 Gbps, PoE++, SMT, SMD, Reflow, IP20, type of packaging: Tape and Reel

## Your advantages

- The reflow capability enables efficient, cost-optimized processing
- The extended temperature range from -40 °C to +85 °C enables use in demanding applications

## Commercial data

Item number	1149611
Packing unit	180 pc
Minimum order quantity	180 pc
Sales key	AB12
Product key	ABNADB
GTIN	4063151143848
Weight per piece (including packing)	6.022 g
Weight per piece (excluding packing)	4.63 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	SMD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking
Shielding	Shielded
Processing notes	Reflow
Type of packaging	Tape and Reel
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	14.5 mm
Width	16.1 mm
Height	13.2 mm
Installed height	13.20 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)	Sn (1.27 $\mu\text{m}$ /50 $\mu\text{m}$ )
Material Contact	Phosphor bronze
Material Solder contact coating (intermediate layer)	Ni (1.27 $\mu\text{m}$ /50 $\mu\text{m}$ )
Material Solder contact coating (top layer/selective)	Au (Flash)
Material Plug contact coating (top layer/selective)	Au

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Material Plug contact coating (intermediate layer)	Ni (1,270 µm min / 50 µ" min)
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## 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	SMT
Moisture Sensitive Level	MSL 1 (IEC 60068-2-58)
Solder cycles in the reflow	3 (IEC 60068-2-58)

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Drawings

Diagram



Classification reflow soldering profile

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1149611>



**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 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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### EF3.1 Climate Change

CO2e kg	0.21 kg CO2e
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