

# CUC-IND-J1ST-A/R4LS-LED-PG - Modular RJ45 PCB connectors



1099281

<https://www.phoenixcontact.com/us/products/1099281>

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab up, Shielded, shield springs, Bicolor LED (green-yellow, green-yellow), number of positions: 8, 10 Gbps, PoE++, THT, THD, Wave, IP20

## Your advantages

- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- 360° shielding ensures reliable transmission, even in industrial applications
- With integrated hybrid LEDs as optical status indicators of data transmission
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications

## Commercial data

Item number	1099281
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4055626947938
Weight per piece (including packing)	5.77 g
Weight per piece (excluding packing)	5.7 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

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, shield springs
Status display	Bicolor LED (green-yellow, green-yellow)
Processing notes	Wave
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 (IEC 60664-1)
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 MΩ (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	17.1 mm
Width	18 mm
Height	17.6 mm
Installed height	12.80 mm
Data pin length	3.30 mm

### Material specifications

Material Contact carrier	PA
Flame resistance	UL 94 V0
Halogen-free	yes
Material Housing	Copper alloy
Material Housing coating	Ni
Material Housing pin coating (top layer/selective)	Ni
Material Contact	Copper alloy
Material Solder contact coating (intermediate layer)	Ni

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Material Solder contact coating (top layer/selective)	Au
Material Plug contact coating (top layer/selective)	Au (1.27 µm/50 µ")
Material Plug contact coating (intermediate layer)	Ni

## 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 ... 105 °C
Ambient temperature (storage/transport)	-40 °C ... 105 °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 (IEC 60068-2-6)

Acceleration	200 m/s <sup>2</sup>
Frequency	20 - 2000 Hz
Amplitude	1 mm
Cycles	10 cycles per axis, 20 sweeps
Sweep speed	1 octave/min

### Test specification Shock (IEC 60068-2-27)

Pulse shape	Half-sine
Acceleration	500 m/s <sup>2</sup>

## Mounting

### Processing notes

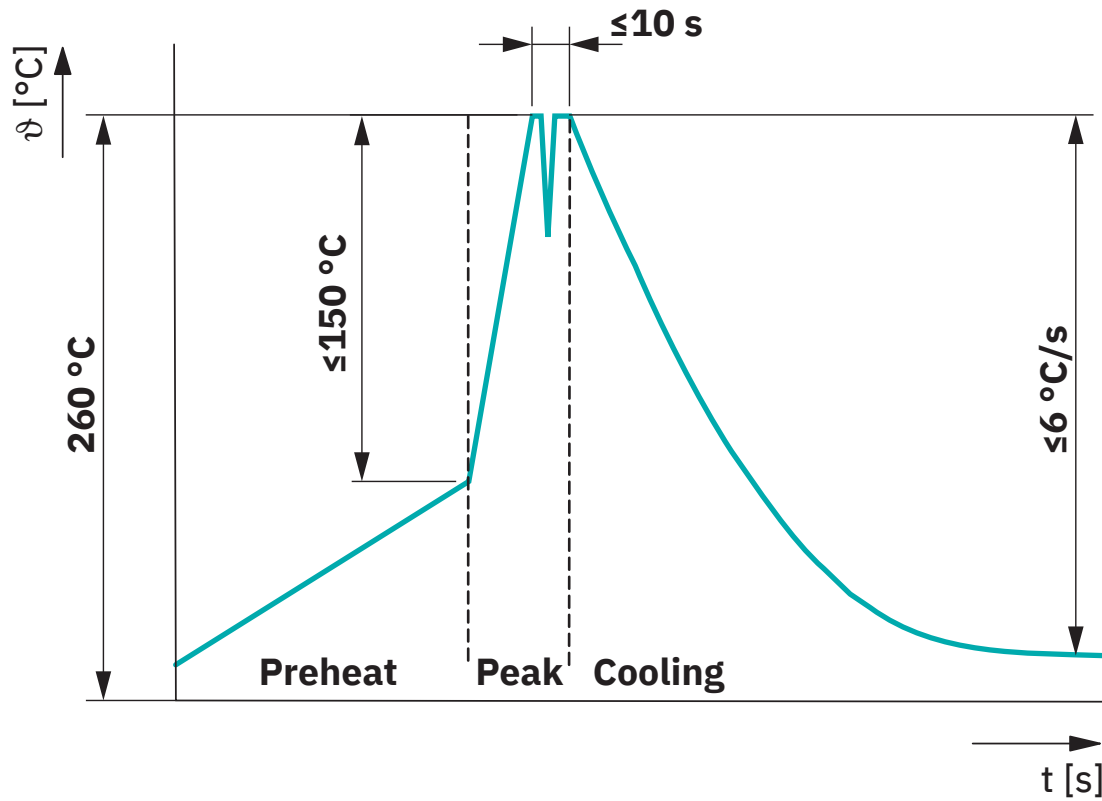
Mounting type	THT
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## Drawings

Diagram



Classification wave soldering profile

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1099281>



**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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