

# CUC-IND-J1ST-S/R4LS-PG-S - RJ45 PCB connectors



1321249

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RJ45 PCB connectors, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, material: Metal, connection method: THR reflow/THT wave, Short solder contacts

## 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
- Housing shield springs enable an optimized EMC shielding concept
- Enables data transmission rates of up to 10 Gbps
- Automated handling process thanks to reflow capability
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications
- Tape-on-reel packaging

## Commercial data

Item number	1321249
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151608217
Weight per piece (including packing)	9.214 g
Weight per piece (excluding packing)	9.2 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

Type	RJ45
Product type	Data connector (device side)
Number of positions	8
Type of packaging	Tape and Reel
[W] tape width	44.00 mm
[A] coil diameter	330.00 mm
[W2] coil overall dimension	50.40 mm
Housing shield springs	Yes
Connection profile	RJ45
Number of slots	1
Type	Socket
Shielded	yes

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Rated voltage (III/2)	72 V DC
Rated surge voltage	1.5 kV DC
Rated surge voltage (III/3)	1.5 kV
Rated surge voltage	1 kV DC
Rated current	1.5 A
Frequency range	10 Hz ... 500 Hz
Insulation resistance	> 500 MΩ
Test voltage	1 kV DC
Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Transmission medium	Copper
Transmission speed	10 Gbps
Power transmission	PoE++

### Connection data

#### Connection technology

Connection method	THR reflow/THT wave
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### Dimensions

Data pin length	2.00 mm
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### Material specifications

Au (1,27 µm/50 µ")

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Material	Ni
	Au
	Ni
	Copper alloy
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Gold
Housing material	Metal

## Cable/line

Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Halogen-free	yes

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 750
Insertion force per signal contact	< 20.00 N
Extraction force per signal contact	< 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	IP20
Ambient temperature (operation)	-40 °C ... 105 °C
Ambient temperature (storage/transport)	-40 °C ... 105 °C

## Mounting

Mounting type	THR soldering
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### Processing notes

Moisture Sensitive Level	MSL 1
Classification temperature T <sub>c</sub>	260 °C
Solder cycles in the reflow	3

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## Classifications

### ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440223
ECLASS-13.0	27460201

### ETIM

ETIM 9.0	EC003557
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### UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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