

# CUC-IB3G-J1ST-AT/R4T-L1 - Filtered RJ45 PCB connectors



1664013

<https://www.phoenixcontact.com/us/products/1664013>

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Filtered RJ45 PCB connectors, connection direction of the connector to the PCB: 90 °, Tab up, number of positions: 8, 1 Gbps, THT, Wave, type of packaging: Tray

## Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- Tray packing
- Space-saving due to the compact design
- Outstanding EMI performance
- Enables space-saving PCB design while simultaneously reducing the BOM thanks to integrated filters and transformers
- Ideal for demanding industrial applications due to the high shock and vibration resistance as well as the extended temperature range

## Commercial data

Item number	1664013
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204256
Weight per piece (including packing)	9.01 g
Weight per piece (excluding packing)	6.3 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

Product type	Data connector (device side)
Sensor type	Universal
Number of positions	8
Note number of positions	8P8C
Connection profile	RJ45
Housing shield springs	No
Number of slots	1
Shielded	yes

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	0.5 A
Insulation resistance	> 500 MΩ (IEC 60603-7)
Transmission speed	1 Gbps
Transmission speed	1 Gbps

### Connection data

#### Connection technology

Connection method	Female
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### Signaling

Status display present	yes
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### Dimensions

Width	15.75 mm
Height	17.4 mm
Length	21.5 mm
Installed height	13.80 mm
Orientation to PCB	90.00 °
Data pin length	3.20 mm

### Material specifications

Material	Au (0.762 µm/30 µ")
Material	Ni (1,270 µm min / 50 µ" min)
Material	Sn (3,048 µm min / 120 µ" min)
Material	Ni (1,016 µm min / 40 µ" min)
Material Housing	Ni (0.762 µm min / 30 µ" min)

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Material Contact	Phosphor bronze
Material	Sn (3,048 µm min / 120 µ" min)
Material Contact carrier	LCP (Housing (female/insert))

## Cable/line

Test voltage Core/Shield	1.50 kV DC (IEC 60603-7)
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	
Specification	IEC 60603-7

## Ambient conditions

Degree of protection (when plugged in)	IP20 (IEC 60603-7)
Degree of protection	IP20 (IEC 60603-7)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

## Standards and regulations

Flame resistance	UL 94 V0
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## Mounting

Mounting type	THT
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Processing notes	
Classification temperature $T_c$	260 °C

## Packaging specifications

Type of packaging	Tray
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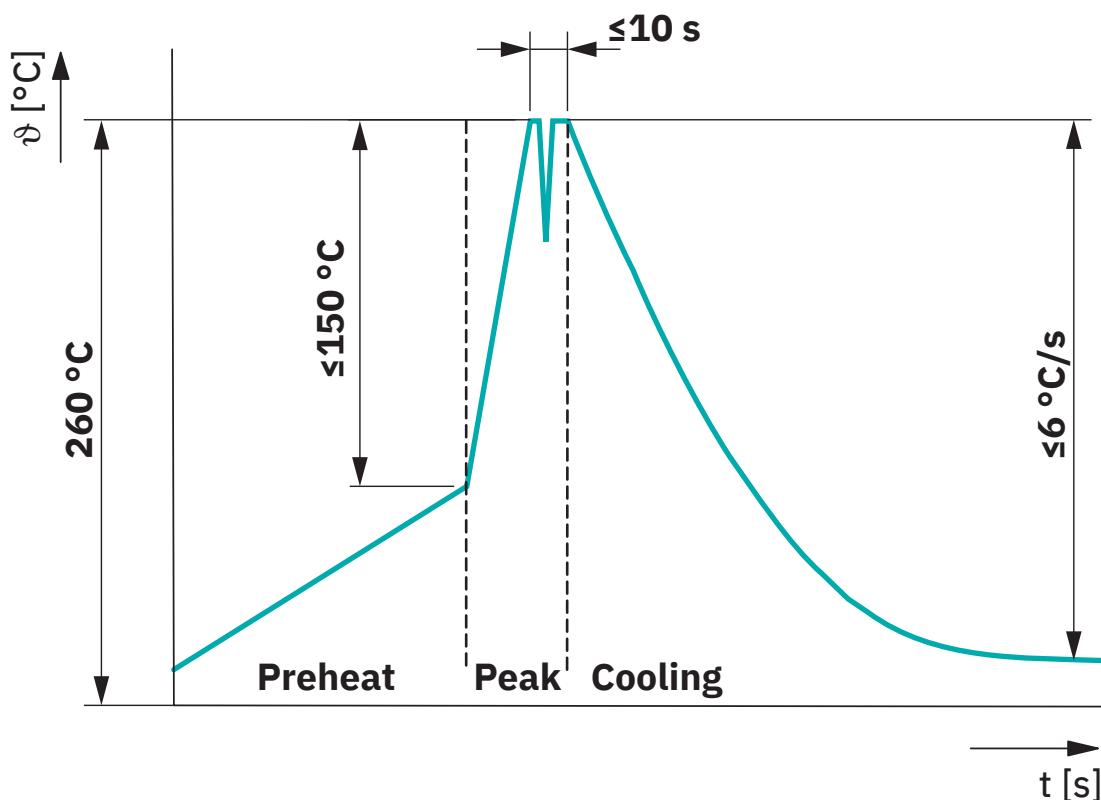


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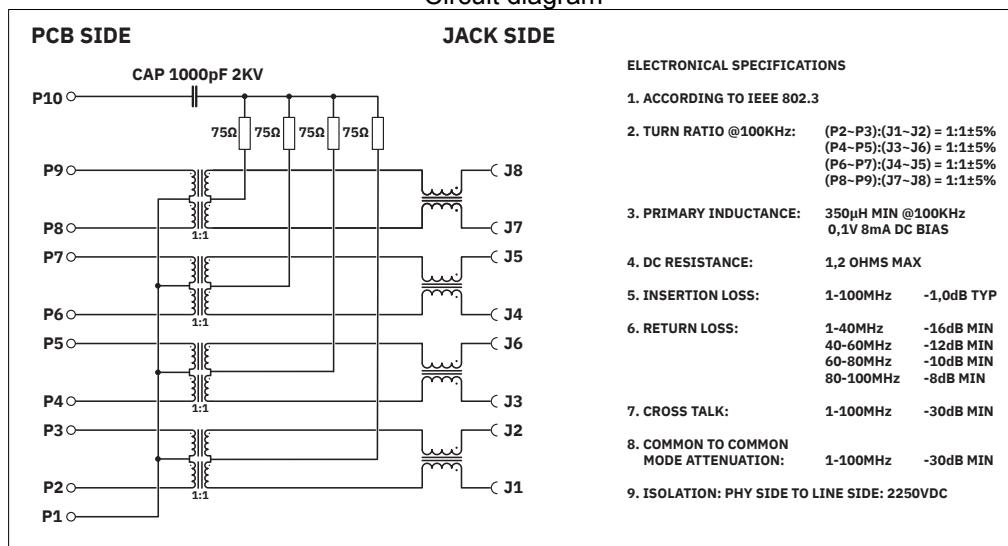
## Drawings

Diagram



Classification wave soldering profile

Circuit diagram



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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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