

# CUC-IB7G-J1ST-AT/R4T - Filtered RJ45 PCB connectors



1664024

<https://www.phoenixcontact.com/us/products/1664024>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Filtered RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab up, Shielded, 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	1664024
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204317
Weight per piece (including packing)	8.91 g
Weight per piece (excluding packing)	6.3 g
Customs tariff number	85366930
Country of origin	CN

# CUC-IB7G-J1ST-AT/R4T - Filtered RJ45 PCB connectors



1664024

<https://www.phoenixcontact.com/us/products/1664024>

## Technical data

### Product properties

Product type	Data connector (device side)
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
application range	Wave
Type of packaging	Tray
Transmission speed	1 Gbps (1000BASE-T)

### Electrical properties

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

### Connection data

#### Connection technology

Connection method	Female
-------------------	--------

### Signaling

Status display present	no
------------------------	----

### 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 Plug contact coating (top layer/selective)	Au (0.762 µm/30 µ"
Material Plug contact coating (intermediate layer)	Ni (1,270 µm min / 50 µ" min)
Material Solder contact coating (top layer/selective)	Sn (3,048 µm min / 120 µ" min)
Material Solder contact coating (intermediate layer)	Ni (1,016 µm min / 40 µ" min)
Material Housing	Ni (0.762 µm min / 30 µ" min)

# CUC-IB7G-J1ST-AT/R4T - Filtered RJ45 PCB connectors



1664024

<https://www.phoenixcontact.com/us/products/1664024>

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

## Cable/line

Shielding	Shielded
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
------------------	----------

## Mounting

Mounting type	THT
---------------	-----

### Processing notes

Classification temperature T <sub>c</sub>	260 °C
---	--------

## Packaging specifications

Type of packaging	Tray
-------------------	------

# CUC-IB7G-J1ST-AT/R4T - Filtered RJ45 PCB connectors

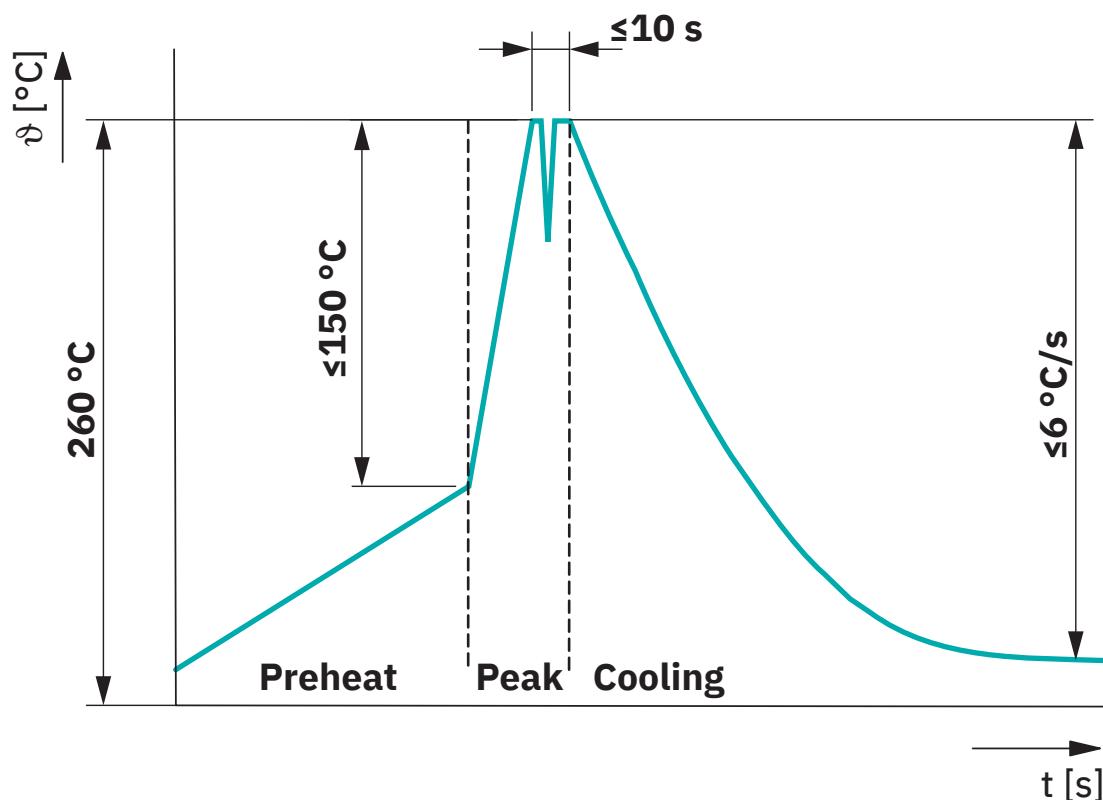


1664024

<https://www.phoenixcontact.com/us/products/1664024>

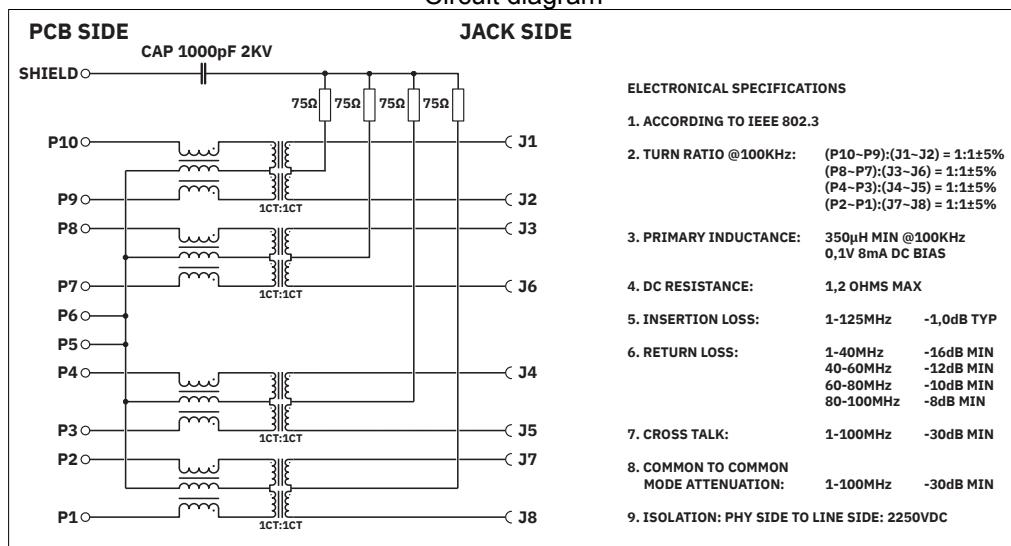
## Drawings

Diagram



Classification wave soldering profile

Circuit diagram



# CUC-IB7G-J1ST-AT/R4T - Filtered RJ45 PCB connectors



1664024

<https://www.phoenixcontact.com/us/products/1664024>

## Classifications

### ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

### ETIM

ETIM 9.0	EC002637
----------	----------

# CUC-IB7G-J1ST-AT/R4T - Filtered RJ45 PCB connectors



1664024

<https://www.phoenixcontact.com/us/products/1664024>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### 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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

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