

1663967

<https://www.phoenixcontact.com/us/products/1663967>

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RJ45 PCB connector, number of positions: 8, 2 x LED (green, yellow), 100 Mbps, THT wave, degree of protection: IP20, Tray

Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- Automated processing thanks to reflow solderability
- Ideal version for any application thanks to wide range of products
- Equipped for demanding areas of application thanks to industrial design

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1663967       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | AB12          |
| Product key                          | ABNAFA        |
| GTIN                                 | 4067923203273 |
| Weight per piece (including packing) | 8.82 g        |
| Weight per piece (excluding packing) | 6.1 g         |
| Customs tariff number                | 85366930      |
| Country of origin                    | CN            |

# CUC-IB4M-J1ST-AT/R4T-PL1 - RJ45 PCB connector



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## Technical data

### Product properties

|                        |                              |
|------------------------|------------------------------|
| Product type           | Data connector (device side) |
| Number of positions    | 8                            |
| Connection profile     | RJ45                         |
| Housing shield springs | Yes                          |
| Number of slots        | 1                            |
| Shielded               | yes                          |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 2 |

### Electrical properties

|                             |             |
|-----------------------------|-------------|
| Rated surge voltage         | 1.5 kV      |
| Rated surge voltage (III/3) | 1.5 kV      |
| Rated current               | 0.5 A       |
| Insulation resistance       | > 500 MΩ    |
| Transmission medium         | Copper      |
| Transmission speed          | 100 Mbps    |
| Transmission speed          | 10/100 Mbps |

### Signaling

|                        |                         |
|------------------------|-------------------------|
| Status display         | 2 x LED (green, yellow) |
| Status display present | yes                     |

### 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 Metal surface contact area (top layer)      | Au (0.762 µm/30 µ")                                           |
| Material Metal surface contact area (middle layer)   | Ni (1,270 µm min / 50 µ" min)                                 |
| Material Metal surface soldering area (middle layer) | Ni (1,016 µm min / 40 µ" min)                                 |
| Material Metal surface soldering area (top layer)    | Sn (3,048 µm min / 120 µ" min)                                |
| Material                                             | Copper alloy (Housing (shielding))                            |
|                                                      | Ni (0.762 µm min / 30 µ" min) (Housing shielding (top layer)) |
| Material Contact                                     | Phosphor bronze                                               |
| Material                                             | LCP (Housing (female/insert))                                 |

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|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

## Cable/line

|              |     |
|--------------|-----|
| 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

|               |             |
|---------------|-------------|
| Specification | IEC 60603-7 |
|---------------|-------------|

### Ambient conditions

|                                        |      |
|----------------------------------------|------|
| Degree of protection (when plugged in) | IP20 |
|----------------------------------------|------|

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
|---------------------------------|------------------|

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
|-----------------------------------------|------------------|

## Mounting

|               |          |
|---------------|----------|
| Mounting type | THT wave |
|---------------|----------|

### Processing notes

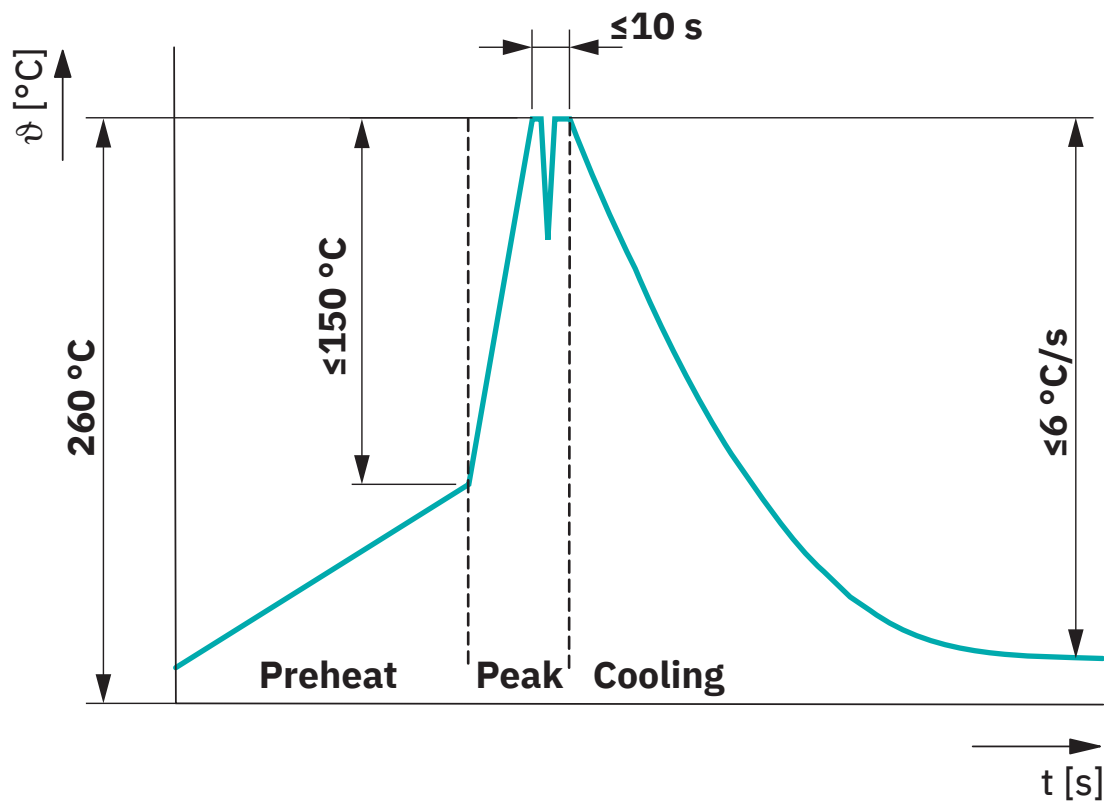
|                                           |        |
|-------------------------------------------|--------|
| Classification temperature T <sub>c</sub> | 260 °C |
|-------------------------------------------|--------|

## Packaging specifications

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

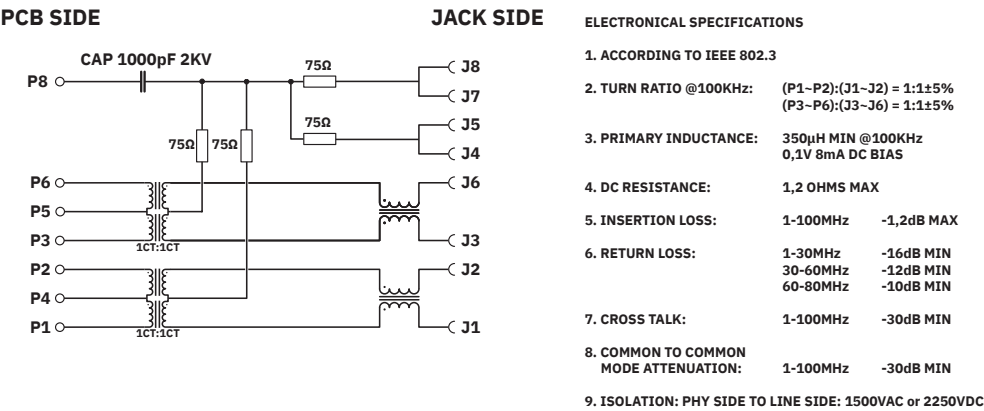
Drawings

Diagram



Classification wave soldering profile

Circuit diagram



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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## 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% |
|-------------------------------------|----------------------------|

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