

# CUC-IND-C1ZNI-B/R4IE8 - RJ45 connector



1421876

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: angled, Ethernet

## Your advantages

- Easy and time-saving assembly with IDC fast connection technology
- Can be used internationally due to EAC, UL 1863, and CAN/CSA C22.2
- Ideal companion for servicing or repairs in the field: no special tools required for mounting

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1421876       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB10          |
| Product key                          | ABNAAA        |
| GTIN                                 | 4055626287560 |
| Weight per piece (including packing) | 31.3 g        |
| Weight per piece (excluding packing) | 25.983 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                             |
|----------------------|-----------------------------|
| Product type         | Data connector (cable side) |
| Type                 | RJ45                        |
| Sensor type          | Ethernet                    |
| Number of positions  | 8                           |
| Connection profile   | RJ45                        |
| No. of cable outlets | 1                           |
| Shielded             | yes                         |
| Cable outlet         | angled                      |
| Positions/contacts   | 8P8C                        |

### Insulation characteristics

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

### Electrical properties

|   |  |
|---|--|
| Rated voltage (III/3)                   | 72 V (DC)  |
| Rated current                           | 1.75 A   |
| Contact resistance                      | < 20 mΩ (Contact)<br>< 100 mΩ (shield)             |
| Frequency range                         | to 100 MHz   |
| Insulation resistance                   | > 500 MΩ   |
| Nominal voltage $U_N$                   | 48 V   |
| Nominal current $I_N$                   | 1.75 A   |
| Contact resistance per contact pair     | < 20 Ω   |
| Contact resistance                      | > 10 mΩ (Wire – IDC)<br>0.005 Ω (Litz wires – IDC) |
| Transmission medium                     | Copper   |
| Transmission speed                      | 1 Gbps   |
| Transmission characteristics (category) | CAT5   |
| Transmission speed                      | 1 Gbps   |
| Power transmission                      | PoE++ in accordance with: IEEE 802.3bt             |

### Connection data

#### Connection technology

|                                  |   |
|----------------------------------|---|
| Connection method                | Insulation displacement connection  |
| Connection cross section AWG     | 26 ... 24 (solid)<br>26 ... 24 (flexible)   |
| Conductor cross section          | 0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (solid)<br>0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (flexible) |
| Connection in acc. with standard | in accordance with IEC 60603-7-1  |

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## Dimensions

|        |          |
|--------|----------|
| Width  | 13.65 mm |
| Height | 40 mm    |
| Length | 37.95 mm |

## Material specifications

|  |                 |
|--|-----------------|
| Material                               | Plastic         |
| Flammability rating according to UL 94 | V0              |
| Housing material                       | Metal           |
| Housing surface material               | Ni              |
| Cable seal material                    | NBR             |
| Contact material                       | CuSn            |
| Contact surface material               | Au/Ni           |
| Contact carrier material               | PC              |
| Locking latch material                 | Stainless steel |

## Cable/line

|                                    |                      |
|------------------------------------|----------------------|
| External cable diameter            | 5 mm ... 9 mm        |
| External cable diameter            | 5 mm ... 9 mm        |
| Wire diameter including insulation | ≤ 1.6 mm             |
| Cable cross section                | 0.14 mm <sup>2</sup> |
| Test voltage Core/Core             | 1000 V               |
| Test voltage Core/Shield           | 1500.00 V            |

## 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

|               |                        |
|---------------|------------------------|
| Type of test  | Vibration test         |
| Specification | IEC 60068-2-6          |
| 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                |

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP20   |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |

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|   |                  |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
|---|------------------|

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | For field assembly |
|---------------|--------------------|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1421876>

|  |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>cULus Recognized</b><br/>Approval ID: E335024-20170228</div> |                       |                       |                   |                             |
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 56.5 V                | 1.75 A                | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440114 |
| ECLASS-15.0 | 27440114 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002636 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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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