

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



1421607

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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: straight, color: green, 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                          | 1421607       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB10          |
| Product key                          | ABNAAA        |
| GTIN                                 | 4055626276915 |
| Weight per piece (including packing) | 17.936 g      |
| Weight per piece (excluding packing) | 17.936 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                        |
| Number of positions  | 8                           |
| Connection profile   | RJ45                        |
| No. of cable outlets | 1                           |
| Shielded             | yes                         |
| Cable outlet         | straight                    |
| 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)                      |
|                                         | < 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                      | > 10 mΩ (Wire – IDC)                   |
|                                         | 0.005 Ω (Litz wires – IDC)             |
| Transmission medium                     | Copper                                 |
| Transmission speed                      | 1 Gbps                                 |
| Transmission characteristics (category) | CAT5                                   |
| Power transmission                      | PoE++ in accordance with: IEEE 802.3bt |
| Wave impedance                          | 100 Ω                                  |

### Connection data

#### Connection technology

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| Connection method                | Insulation displacement connection                       |
| Connection cross section AWG     | 26 ... 24 (solid)                                        |
|                                  | 26 ... 24 (flexible)                                     |
| Conductor cross-section          | 0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (solid)    |
|                                  | 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                         |
| Cable outlet, angle              | 180                                                      |

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## Interfaces

|                      |                       |
|----------------------|-----------------------|
| Signal type/category | Ethernet CAT5, 1 Gbps |
|----------------------|-----------------------|

## Dimensions

|        |          |
|--------|----------|
| Width  | 13.65 mm |
| Height | 14.4 mm  |
| Length | 53 mm    |

## Material specifications

|                                        |                 |
|----------------------------------------|-----------------|
| Color                                  | green           |
| 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            |
| Wave impedance                     | 100 Ω                |

## 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

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation) (Plug)  | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |

### Test specification

|              |                |
|--------------|----------------|
| Type of test | Vibration test |
|--------------|----------------|

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|               |                     |
|---------------|---------------------|
| Specification | IEC 60068-2-6       |
| Frequency     | 10-500 Hz           |
| Sweep speed   | 1 octave/min        |
| Amplitude     | 0.35 mm             |
| Acceleration  | 50 m/s <sup>2</sup> |
| Test duration | 20 s                |

## 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/1421607>

|                                                                                                                                                        |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <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 10.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.666 kg CO2e |
|---------|---------------|

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