

# CUC-INI-C1ZNI-S/R4IP8 - RJ45 male insert



1421129

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RJ45 male insert, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: straight, Ethernet/PROFINET

## 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                          | 1421129       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | ABNAAA        |
| Product key                          | ABNAAA        |
| GTIN                                 | 4055626254685 |
| Weight per piece (including packing) | 25.9 g        |
| Weight per piece (excluding packing) | 11.807 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|                     |                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note on application | This item is a replacement RJ45 CAT5 connector insert for a push-pull ADVANCE connector (version 14). Connectors that are compatible with this replacement part are listed under Accessories. |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|                      |                             |
|----------------------|-----------------------------|
| Product type         | Data connector (cable side) |
| Series               | HC-M-RJ45-AD-I              |
| Type                 | RJ45                        |
| Sensor type          | Ethernet/PROFINET           |
| 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)<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 (IEC 11801:2002)                              |
| Transmission speed                      | 1 Gbps                                             |
| Power transmission                      | PoE++ in accordance with: IEEE 802.3bt             |

### Connection data

Connection technology

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|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| Connection method                | Insulation displacement connection                       |
| Connection cross section AWG     | 23 ... 22 (solid)                                        |
|                                  | 23 ... 22 (flexible)                                     |
| Conductor cross-section          | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (solid)    |
|                                  | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (flexible) |
| Connection in acc. with standard | in accordance with IEC 60603-7-1                         |
| Cable outlet, angle              | 180                                                      |

## Dimensions

|        |          |
|--------|----------|
| Width  | 13.65 mm |
| Height | 43.4 mm  |
| Length | 10.5 mm  |

## Material specifications

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | V0    |
| Housing material                       | Metal |
| Housing surface material               | Ni    |
| Contact material                       | CuSn  |
| Contact surface material               | Au/Ni |
| Contact carrier material               | PC    |

## Cable/line

|                                    |               |
|------------------------------------|---------------|
| External cable diameter            | 5 mm ... 9 mm |
| External cable diameter            | 5 mm ... 9 mm |
| Wire diameter including insulation | ≤ 1.6 mm      |
| 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                |

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## Mounting

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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1421129>

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

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