

# CUC-INI-C1ZNI-S/R4IP10G8 - RJ45 male insert



1157963

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RJ45 male insert, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub> (IEC 60512-27-100:2008, TIA-568-C.2:2009), material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: straight, 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
- Future-proof due to CAT6<sub>A</sub> with 10 Gbps
- 360° shielding ensures reliable transmission, even in industrial applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1157963       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB10          |
| Product key                          | ABNAAB        |
| GTIN                                 | 4063151163815 |
| Weight per piece (including packing) | 20.8 g        |
| Weight per piece (excluding packing) | 11.796 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                             |
|----------------------|-----------------------------|
| Product type         | Data connector (cable side) |
| Series               | HC-M-RJ45-AD-I              |
| Type                 | RJ45                        |
| Sensor type          | Ethernet                    |
| 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 m $\Omega$ (Contact)<br>< 100 m $\Omega$ (shield)            |
| Insulation resistance                   | > 500 M $\Omega$  |
| Contact resistance per contact pair     | < 20 $\Omega$   |
| Contact resistance                      | > 10 m $\Omega$ (Wire – IDC)<br>0.005 $\Omega$ (Litz wires – IDC) |
| Transmission speed                      | 10 Gbps   |
| Transmission characteristics (category) | CAT6 <sub>A</sub>   |
| Transmission speed                      | 10 Gbps   |
| Power transmission                      | PoE++ in accordance with: IEEE 802.3bt                            |
| Wave impedance                          | 100 $\Omega$  |

### Connection data

#### Connection technology

|                                  |   |
|----------------------------------|---|
| Connection method                | Insulation displacement connection  |
| Connection cross section AWG     | 23 ... 22 (solid)<br>23 ... 22 (flexible)   |
| Conductor cross-section          | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (solid)<br>0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (flexible) |
| Connection in acc. with standard | IEC 60603-7-51  |
| Cable outlet, angle              | 180   |

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## Dimensions

|        |         |
|--------|---------|
| Width  | 13.6 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 |
| Material for screw connection          | PA    |

## Cable/line

|                          |               |
|--------------------------|---------------|
| External cable diameter  | 5 mm ... 9 mm |
| External cable diameter  | 5 mm ... 9 mm |
| 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

### 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                |

## Mounting

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

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## Approvals

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|  <b>cULus Recognized</b><br>Approval ID: E335024-20170228 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 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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