

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector

1421877

<https://www.phoenixcontact.com/us/products/1421877>



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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 | 1421877 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB10 |
| Product key | ABNAAA |
| Catalog page | Page 373 (C-2-2019) |
| GTIN | 4055626315706 |
| Weight per piece (including packing) | 31.5 g |
| Weight per piece (excluding packing) | 31.5 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 |
| Type | RJ45 |
| 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) < 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) 0.005 Ω (Litz wires – IDC) |
| Transmission medium | Copper |
| Transmission characteristics (category) | CAT5 |
| Transmission speed | 1 Gbps |
| Power transmission | PoE++ |

Connection data

Connection technology

| | |
|----------------------------------|---|
| Connection method | Insulation displacement connection |
| Connection cross section AWG | 26 ... 24 (solid) 26 ... 24 (flexible) |
| Conductor cross section | 0.14 mm² ... 0.22 mm² (solid) 0.14 mm² ... 0.22 mm² (flexible) |
| Connection in acc. with standard | in accordance with IEC 60603-7-1 |

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Dimensions

| | |
|--------|---------|
| Width | 13.6 mm |
| Height | 41.2 mm |
| Length | 37.9 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 ² |
| 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 ² |
| Test duration | 20.00 s |

Ambient conditions

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

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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/1421877>

| cULus Recognized | | | | |
|-------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| Approval ID: E335024-20170228 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 56.5 V | 0.175 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

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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Phoenix Contact USA

586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com