

CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector



1149846

<https://www.phoenixcontact.com/us/products/1149846>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: yellow, 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
- 360° shielding ensures reliable transmission, even in industrial applications
- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- Innovative one-piece design prevents mounting errors and the loss of small parts
- Future-proof due to CAT6_A with 10 Gbps

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1149846 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB10 |
| Product key | ABNAAB |
| GTIN | 4063151146320 |
| Weight per piece (including packing) | 18.1 g |
| Weight per piece (excluding packing) | 13.817 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

1149846

<https://www.phoenixcontact.com/us/products/1149846>

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 | 500 Hz |
| Insulation resistance | > 500 MΩ |
| Contact resistance per contact pair | < 20 Ω |
| Contact resistance | > 10 mΩ (Wire – IDC) 0.005 Ω (Litz wires – IDC) |
| Transmission speed | 10 Gbps |
| Transmission characteristics (category) | CAT6 _A |
| Transmission speed | 10 Gbps |
| 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 ² ... 0.22 mm ² (solid) 0.14 mm ² ... 0.22 mm ² (flexible) |
| Connection in acc. with standard | IEC 60603-7-51 |
| Cable outlet, angle | 180 |

Interfaces

CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector



1149846

<https://www.phoenixcontact.com/us/products/1149846>

| | |
|----------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 _A , 10 Gbps |
|----------------------|--------------------------------------|

Dimensions

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

Material specifications

| | |
|--|-----------------|
| Color | yellow |
| 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 |
| Material for screw connection | PA |

Cable/line

| | |
|------------------------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 _A , 10 Gbps |
| 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 |
| Wave impedance | 100 Ω |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 750 |
|-----------------------------|-------|

Environmental and real-life conditions

Test specification

| | |
|---------------|-------------------------|
| Type of test | Vibration test |
| Specification | IEC 60068-2-6 |
| Frequency | 2-2000 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 1.00 mm |
| Acceleration | 200.00 m/s ² |
| Test duration | 20.00 s |

Test specification

CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector



1149846

<https://www.phoenixcontact.com/us/products/1149846>

| | |
|--------------------------------|-------------------------|
| Type of test | Shock testing |
| Specification | IEC 60068-2-27 |
| Acceleration | 491.00 m/s ² |
| Number of shocks per direction | 5.00 |

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |

Mounting

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

CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector



1149846

<https://www.phoenixcontact.com/us/products/1149846>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1149846>

|  cULus Recognized Approval ID: E335024-20170228 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 56.5 V | 1.75 A | - | - |

CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector



1149846

<https://www.phoenixcontact.com/us/products/1149846>

Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002636 |
|-----------|----------|

UNSPSC

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

1149846

<https://www.phoenixcontact.com/us/products/1149846>

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 | 0.618 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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