

# CUC-IND-C1ZNI-T/R4IP8 - RJ45 connector



1421128

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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 23- 22, cable outlet: angled, 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	1421128
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAA
GTIN	4055626254678
Weight per piece (including packing)	31.6 g
Weight per piece (excluding packing)	17.186 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	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 m $\Omega$ (Contact) < 100 m $\Omega$ (shield)
Frequency range	to 100 MHz
Insulation resistance	> 500 M $\Omega$
Nominal voltage $U_N$	48 V
Nominal current $I_N$	1.75 A
Contact resistance per contact pair	< 20 $\Omega$
Contact resistance	> 10 m $\Omega$ (Wire – IDC) 0.005 $\Omega$ (Litz wires – IDC)
Transmission medium	Copper
Transmission speed	1 Gbps
Transmission characteristics (category)	CAT5
Transmission speed	1 Gbps
Power transmission	PoE++ in accordance with: IEEE 802.3bt

### Connection data

#### Connection technology

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

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## Interfaces

Signal type/category	Ethernet/PROFINET CAT5, 1 Gbps
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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

Signal type/category	Ethernet/PROFINET CAT5, 1 Gbps
External cable diameter	5 mm ... 9 mm
External cable diameter	5 mm ... 9 mm
Wire diameter including insulation	≤ 1.6 mm
Cable cross section	0.23 mm <sup>2</sup>
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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## Ambient conditions

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

## Mounting

Mounting type	For field assembly
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## Approvals

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 <b>cULus Recognized</b> 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
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	5.221 kg CO2e
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