

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



1421126

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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: straight, color: green, 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	1421126
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAA
GTIN	4055626254654
Weight per piece (including packing)	18 g
Weight per piece (excluding packing)	13.852 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	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	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 speed	1 Gbps
Transmission characteristics (category)	CAT5
Transmission speed	1 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	23 ... 22 (solid) 23 ... 22 (flexible)
Conductor cross-section	0.25 mm <sup>2</sup> ... 0.32 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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Cable outlet, angle	180
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## Interfaces

Signal type/category	Ethernet/PROFINET CAT5, 1 Gbps
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## Dimensions

Width	13.65 mm
Height	14.4 mm
Length	53 mm

## Material specifications

Color	green
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	0.25 mm <sup>2</sup>
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	2-2000 Hz
Sweep speed	1 octave/min

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Amplitude	1.00 mm
Acceleration	200.00 m/s <sup>2</sup>
Test duration	20.00 s

## Test specification

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

## 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	0.575 kg CO2e
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