

# CUC-IND-C1ZNI-S/R4IP10G8 - RJ45 connector



1149847

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RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, 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 companion for servicing or repairs in the field: no special tools required for mounting

## Commercial data

Item number	1149847
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAB
GTIN	4063151144562
Weight per piece (including packing)	17.9 g
Weight per piece (excluding packing)	13.841 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
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
Dielectric strength	1000 V (Conductor-Conductor) 1500 V (Wire/shield)
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 mΩ (Wire – IDC) 0.005 Ω (Litz wire)
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 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> ... 0.34 mm <sup>2</sup> (solid) 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (flexible)
Connection in acc. with standard	IEC 60603-7-51

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Cable outlet, angle	180
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## Dimensions

Width	13.65 mm
Height	14.4 mm
Orientation to PCB	180.00 °
Length	53 mm

## Material specifications

Color	yellow
Color of the housing part	silver
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
Material, protective cover	PE
Locking latch material	Stainless steel
Material for screw connection	PA

## Cable/line

External cable diameter	5 mm ... 9 mm
Wire diameter including insulation	≤ 1.6 mm
Cable cross section	0.25 mm²
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
Amplitude	1.00 mm

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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 ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-40 °C ... 85 °C

## Mounting

Mounting type	For field assembly
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## Approvals

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cULus Recognized				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	56.5 V	1.75 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

### ETIM

ETIM 9.0	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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