

1149846

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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 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<sub>A</sub> 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

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



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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	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 characteristics (category)	CAT6 <sub>A</sub>
Transmission speed	10 Gbps
Power transmission	PoE++
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 mm² ... 0.22 mm² (solid) 0.14 mm² ... 0.22 mm² (flexible)
Connection in acc. with standard	IEC 60603-7-51
Cable outlet, angle	180

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## 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

External cable diameter	5 mm ... 9 mm
Wire diameter including insulation	≤ 1.6 mm
Cable cross section	0.14 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
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## 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 <sup>2</sup>
Test duration	20.00 s

### Test specification

Type of test	Shock testing
Specification	IEC 60068-2-27

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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

## 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 $\text{mm}^2$
	56.5 V	0.175 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440114
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### 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
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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