

# CUC-INI-C1ZNI-S/R4IE8 - RJ45 male insert



1421608

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RJ45 male insert, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, 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

## Commercial data

Item number	1421608
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAA
Catalog page	Page 513 (C-2-2019)
GTIN	4055626276595
Weight per piece (including packing)	25.5 g
Weight per piece (excluding packing)	25.5 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

### Notes

Note on application	This item is a replacement RJ45 CAT5 connector insert for a push-pull ADVANCE connector (version 14). Connectors that are compatible with this replacement part are listed under Accessories.
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### Product properties

Product type	Data connector (cable side)
Series	HC-M-RJ45-AD-I
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

### Data management status

Article revision	03
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### 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 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 characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	1 Gbps
Power transmission	PoE++
Wave impedance	100 Ω

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## 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 <sup>2</sup> ... 0.22 mm <sup>2</sup> (solid)
	0.14 mm <sup>2</sup> ... 0.22 mm <sup>2</sup> (flexible)
Connection in acc. with standard	In accordance with IEC 60603-7-1
Cable outlet, angle	180

## Dimensions

Width	13.65 mm
Height	43.4 mm
Length	10.5 mm

## Material specifications

Flammability rating according to UL 94	V0
Housing material	Metal
Housing surface material	Ni
Contact material	CuSn
Contact surface material	Au/Ni
Contact carrier material	PC

## Cable/line

External cable diameter	5 mm ... 9 mm
External cable diameter	5 mm ... 9 mm
Wire diameter including insulation	≤ 1.6 mm
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	10-500 Hz

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Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50.00 m/s <sup>2</sup>
Test duration	20.00 s

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

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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)