

# CUC-INI-C1ZNI-S/R4IP8 - RJ45 male insert



1421129

<https://www.phoenixcontact.com/us/products/1421129>

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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 23- 22, cable outlet: straight, 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	1421129
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAA
GTIN	4055626254685
Weight per piece (including packing)	25.9 g
Weight per piece (excluding packing)	11.807 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
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 (IEC 11801:2002)
Transmission speed	1 Gbps
Power transmission	PoE++ in accordance with: IEEE 802.3bt

### Connection data

#### Connection technology

Connection method	Insulation displacement connection
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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
Cable outlet, angle	180

## Interfaces

Signal type/category	Ethernet/PROFINET CAT5 (IEC 11801:2002), 1 Gbps
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## 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

Signal type/category	Ethernet/PROFINET CAT5 (IEC 11801:2002), 1 Gbps
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

## 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

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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 $\text{mm}^2$
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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