

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



1421129

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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



1421129

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

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.
---------------------	---

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 m Ω (Contact) < 100 m Ω (shield)
Frequency range	to 100 MHz
Insulation resistance	> 500 M Ω
Nominal voltage U_N	48 V
Nominal current I_N	1.75 A
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 m Ω (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
-------------------	------------------------------------

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



1421129

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

Connection cross section AWG	23 ... 22 (solid)
	23 ... 22 (flexible)
Conductor cross-section	0.25 mm ² ... 0.34 mm ² (solid)
	0.25 mm ² ... 0.34 mm ² (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
----------------------	---

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

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



1421129

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

Acceleration	50.00 m/s ²
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
---------------	--------------------

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



1421129

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

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1421129>

 cULus Recognized Approval ID: E335024-20170228				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	56.5 V	1.75 A	-	-

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



1421129

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

Classifications

ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

ETIM

ETIM 10.0	EC002636
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

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



1421129

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

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com