

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

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 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: angled, 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	1421877
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAA
GTIN	4055626315706
Weight per piece (including packing)	31.5 g
Weight per piece (excluding packing)	16.912 g
Customs tariff number	85366990
Country of origin	PL

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

Technical data

Product properties

Product type	Data connector (cable side)
Type	RJ45
Number of positions	8
Connection profile	RJ45
No. of cable outlets	1
Shielded	yes
Cable outlet	angled
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
Transmission speed	1 Gbps
Power transmission	PoE++ in accordance with: IEEE 802.3bt

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 ² ... 0.22 mm ² (solid) 0.14 mm ² ... 0.22 mm ² (flexible)
Connection in acc. with standard	in accordance with IEC 60603-7-1

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

Interfaces

Signal type/category	Ethernet CAT5, 1 Gbps
----------------------	-----------------------

Dimensions

Width	13.6 mm
Height	41.2 mm
Length	37.9 mm

Material specifications

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

Cable/line

External cable diameter	5 mm ... 9 mm
External cable diameter	5 mm ... 9 mm
Wire diameter including insulation	≤ 1.6 mm
Cable cross section	0.14 mm²
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

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Test specification

Type of test	Vibration test
Specification	IEC 60068-2-6
Frequency	10-500 Hz

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50 m/s ²
Test duration	20 s

Mounting

Mounting type	For field assembly
---------------	--------------------

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1421877>

 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-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

Classifications

ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

ETIM

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

UNSPSC

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

CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector



1421877

<https://www.phoenixcontact.com/us/products/1421877>

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

EF3.1 Climate Change

CO2e kg	4.84 kg CO2e
---------	--------------

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