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

1421608

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RJ45 male insert, RJ45, Ethernet, CAT5 (IEC 11801:2002) (1 Gbps), 8-position, connection method: Insulation displacement connection, material: Metal, connection cross section: AWG 26-24, degree of protection: IP20

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
GTIN	4055626276595
Weight per piece (including packing)	25.5 g
Weight per piece (excluding packing)	11.579 g
Customs tariff number	85366990
Country of origin	PL

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 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 speed	1 Gbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Power transmission	PoE++ in accordance with: IEEE 802.3bt
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	in accordance with IEC 60603-7-1
Cable outlet, angle	180

Interfaces

Signal type/category	Ethernet 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

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

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
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50 m/s²
Test duration	20 s

Mounting

Mounting type	For field assembly

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1421608

cULus Recognized
Approval ID: E335024-20170228

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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	56.5 V	1.75 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440114
ECLASS-15.0	27440114

ETIM

ETIM 10.0	EC002636

UNSPSC

UNSPSC 21.0	39121400

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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