CUC-IND-C1ZNI-S/R4IE10G8 - RJ45 connector

1149846

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RJ45 connector, RJ45, Ethernet, CAT6$_A$ (10 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
- 360° shielding ensures reliable transmission, even in industrial applications
- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- Innovative one-piece design prevents mounting errors and the loss of small parts
- Future-proof due to CAT6_A with 10 Gbps

Commercial data

Item number	1149846
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAB
GTIN	4063151146320
Weight per piece (including packing)	17.5 g
Weight per piece (excluding packing)	17.5 g
Customs tariff number	85366990
Country of origin	PL

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	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	500 Hz
Insulation resistance	> 500 MΩ
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 mΩ (Wire – IDC)
	0.005 Ω (Litz wires – IDC)
Transmission speed	10 Gbps
Transmission characteristics (category)	$CAT6_A$
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	IEC 60603-7-51
Cable outlet, angle	180

Interfaces

Signal type/category	Ethernet $CAT6_A$, 10 Gbps

Dimensions

Width	13.65 mm
Height	14.4 mm
Length	53 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
Material for screw connection	PA

Cable/line

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
Wave impedance	100 Ω

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 750

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

Test specification

Type of test	Vibration test
Specification	IEC 60068-2-6
Frequency	2-2000 Hz
Sweep speed	1 octave/min
Amplitude	1 mm
Acceleration	200 m/s²
Test duration	20 s

Test specification

Type of test	Shock testing
Specification	IEC 60068-2-27
Acceleration	491 m/s²
Number of shocks per direction	5

Mounting

Mounting type	For field assembly

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1149846

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%

EF3.1 Climate Change

CO2e kg	0.618 kg CO2e

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