CUC-IND-C1ZNI-S/R4IP10G8 - RJ45 connector

1149847

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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 23- 22, 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 companion for servicing or repairs in the field: no special tools required for mounting

Commercial data

Item number	1149847
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB10
Product key	ABNAAB
GTIN	4063151144562
Weight per piece (including packing)	17.9 g
Weight per piece (excluding packing)	13.841 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
Dielectric strength	1000 V (Conductor-Conductor)
	1500 V (Wire/shield)
Contact resistance per contact pair	< 20 Ω
Contact resistance	> 10 mΩ (Wire – IDC)
	0.005 Ω (Litz wire)
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	23 ... 22 (solid)
	23 ... 22 (flexible)
Conductor cross-section	0.25 mm² ... 0.34 mm² (solid)
	0.25 mm² ... 0.34 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
Orientation to PCB	180.00 °
Length	53 mm

Material specifications

Color of the housing part	silver
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
Material, protective cover	PE
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	0.25 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
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 ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-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

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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

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	0.533 kg CO2e

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