

1091946
<https://www.phoenixcontact.com/us/products/1091946>

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Modular RJ45 PCB connectors, connection direction of the connector to the PCB: 90 °, Tab up, number of positions: 8, 10 Gbps, PoE++, THT, Wave, type of packaging: Tray

Your advantages

- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- 360° shielding ensures reliable transmission, even in industrial applications
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications

Commercial data

Item number	1091946
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4055626906355
Weight per piece (including packing)	5.575 g
Weight per piece (excluding packing)	5.57 g
Customs tariff number	85366930
Country of origin	CN

CUC-IND-J1ST-A/R4LS - Modular RJ45 PCB connectors



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Technical data

Product properties

Product type	Data connector (device side)
Sensor type	Universal
Number of positions	8
Note number of positions	8P8C
Connection profile	RJ45
Housing shield springs	No
Number of slots	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	1.5 A (IEC 60603-7)
Frequency range	10 Hz ... 500 Hz
Insulation resistance	> 500 MΩ (IEC 60603-7)
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

Connection data

Connection technology

Connection method	Female
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Signaling

Status display present	no
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Dimensions

Width	16.2 mm
Height	16.5 mm
Length	17.1 mm
Installed height	12.80 mm
Orientation to PCB	90.00 °
Data pin length	3.30 mm

Material specifications

Material	Au (1.27 µm/50 µ")
Material	Ni

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Material	Au
Material	Ni
Material Housing	Ni
Material Contact	Copper alloy
Material	Ni
Material Contact carrier	PA (Housing (female/insert))

Cable/line

Test voltage Core/Core	1 kV DC (IEC 60603-7)
Test voltage Core/Shield	1.50 kV DC (IEC 60603-7)
Halogen-free	yes
Flame resistance	UL 94 V0

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 750 (IEC 60603-7)
Insertion force	< 20 N (IEC 60603-7)
Withdrawal force	< 20 N (IEC 60603-7)

Environmental and real-life conditions

Test specification

Frequency	10-500 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50.00 m/s ²
Test duration	20.00 s

Test specification

Specification	IEC60068-2-27
Acceleration	295.00 m/s ²

Ambient conditions

Degree of protection (when plugged in)	IP20 (IEC 60603-7)
Degree of protection (not plugged in)	IP20 (IEC 60603-7)
Ambient temperature (operation)	-40 °C ... 105 °C
Ambient temperature (storage/transport)	-40 °C ... 105 °C

Standards and regulations

Flame resistance	UL 94 V0
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Mounting

Mounting type	THT
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Packaging specifications

Type of packaging	Tray
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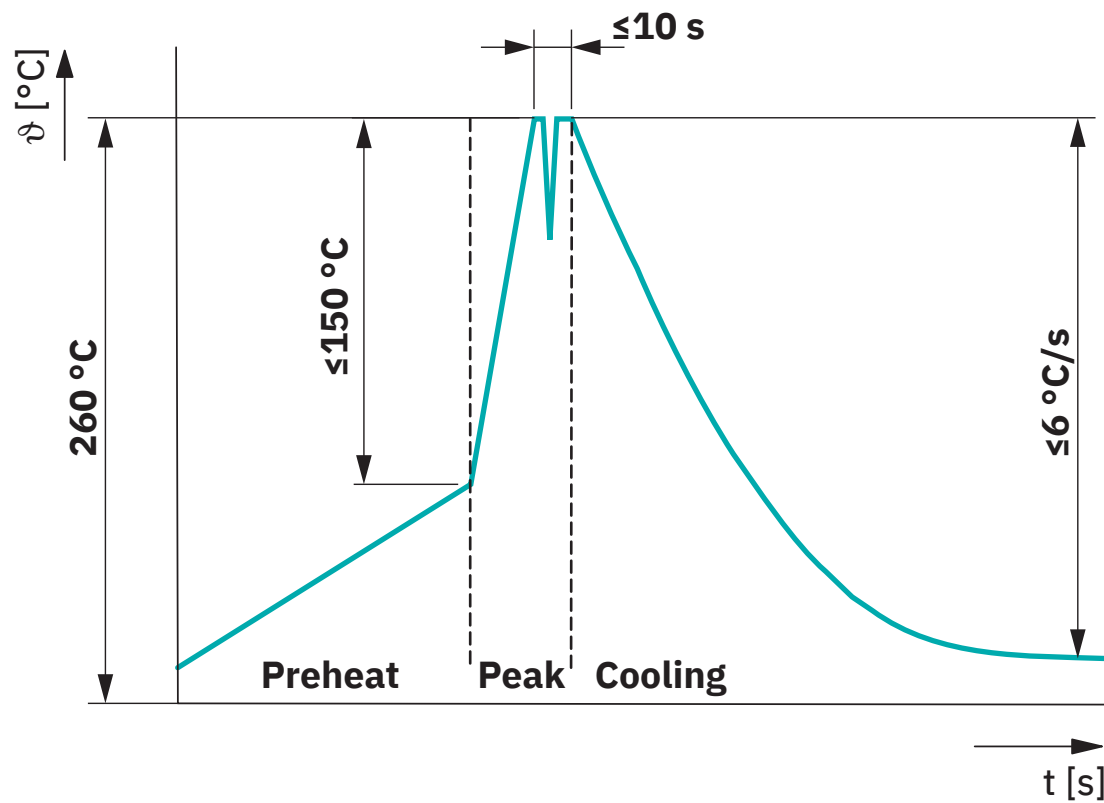


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Drawings

Diagram



Classification wave soldering profile

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Approvals

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cUL Recognized
Approval ID: FILE E 335024



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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637
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UNSPSC

UNSPSC 21.0	39121400
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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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