

1321249
<https://www.phoenixcontact.com/us/products/1321249>

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 180 °, Shielded, shield springs, number of positions: 8, 10 Gbps, PoE++, THT-THR, Reflow, type of packaging: Tape and Reel

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
- Automated handling process thanks to reflow capability
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications
- Tape-on-reel packaging

Commercial data

Item number	1321249
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151608217
Weight per piece (including packing)	9.214 g
Weight per piece (excluding packing)	9.2 g
Customs tariff number	85366930
Country of origin	CN

CUC-IND-J1ST-S/R4LS-PG-S - Modular RJ45 PCB connectors



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Technical data

Product properties

Product type	Data connector (device side)
Slots	1x1 single-port
Orientation to PCB	180.00 °
Type	THD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking
Shielding	Shielded, shield springs
application range	Reflow
Type of packaging	Tape and Reel
Transmission speed	10 Gbps
PoE/PoE+	PoE++
Power PSE	90 W (Class 8 in accordance with IEEE 802.3bt)
Power PD	71 W (Class 4 in accordance with IEEE 802.3bt)

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
Test voltage	1.5 kV DC IEC 60603-7 (Contact - contact)
	1.5 kV DC IEC 60603-7 (Contact - shield)
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	18 mm
Height	16.8 mm
Length	17.5 mm
Installed height	14.30 mm
Orientation to PCB	180.00 °

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Data pin length	2.00 mm
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Material specifications

Material Plug contact coating (top layer/selective)	Au (1.27 µm/50 µ")
Material Plug contact coating (intermediate layer)	Ni
Material Solder contact coating (top layer/selective)	Au
Material Solder contact coating (intermediate layer)	Ni
Material Housing	Ni
Material Contact	Copper alloy
Material Housing pin coating (top layer/selective)	Ni
Material Contact carrier	PA (Housing (female/insert))

Cable/line

Shielding	Shielded, shield springs
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-THR
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Processing notes

Moisture Sensitive Level	MSL 1
Classification temperature T _c	260 °C
Solder cycles in the reflow	3

Packaging specifications

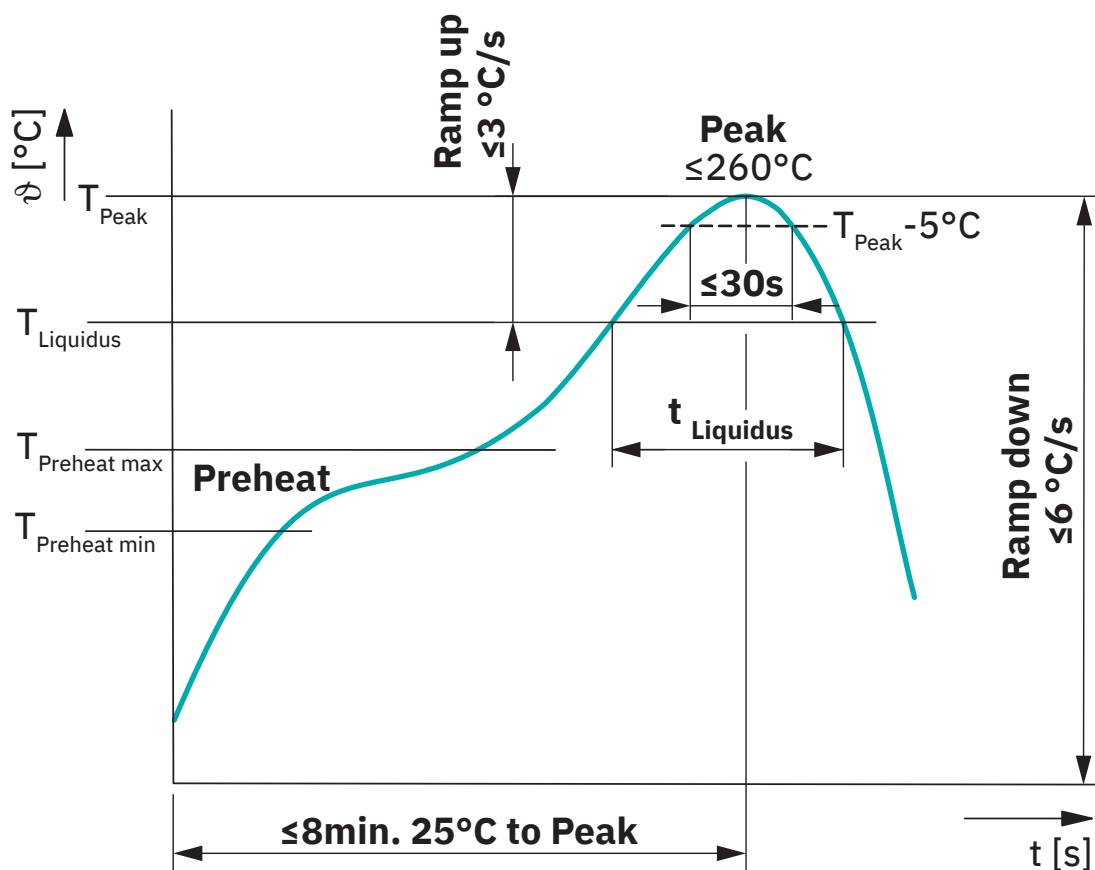
Type of packaging	Tape and Reel
[W] tape width	44 mm
[W2] coil overall dimension	50.4 mm
[A] coil diameter	330 mm

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Drawings

Diagram



Classification reflow 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
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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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