

# CUC-USB3.1-J1ST-S/UCF-SMD - USB PCB connectors



1332646

<https://www.phoenixcontact.com/us/products/1332646>

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USB PCB connectors, number of positions: 24, 10 Gbps, SMD soldering, degree of protection: IP20, connection method: Solder connection

## Your advantages

- Optimized for SMD reflow soldering processes
- Data transmission up to 10 Gbps
- Can be processed automatically thanks to tape-on-reel packaging

## Commercial data

Item number	1332646
Packing unit	500 pc
Minimum order quantity	500 pc
Sales key	AB14
Product key	ABNDAC
GTIN	4063151629953
Weight per piece (including packing)	1.19 g
Weight per piece (excluding packing)	1 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

Product type	Data connector (device side)
Number of positions	24
Connection profile	USB-C
Number of slots	1
Shielded	yes

### Insulation characteristics

Overvoltage category	I
Degree of pollution	2

### Electrical properties

Rated voltage	20 V
Rated surge voltage	1.5 kV
Rated current	5 A
Contact resistance	40 mΩ
Frequency range	10 Hz ... 55 Hz
Insulation resistance	100 MΩ
Transmission speed	10 Gbps
Transmission characteristics (category)	USB 3.2 Gen 2
Transmission speed	10 Gbps
Power transmission	100 W

### Connection data

#### Connection technology

Connection method	Solder connection
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### Dimensions

Width	11 mm
Height	3.16 mm
Length	6.6 mm
Orientation to PCB	180.00 °

### Material specifications

Color (Housing)	black (RAL 9005)
Material Metal surface contact area (top layer)	Gold-plated
Material Metal surface contact area (middle layer)	Nickel coating 50 µ min
Material Metal surface soldering area (top layer)	Tin coating 100 µ min
Material Metal surface soldering area (middle layer)	Nickel coating 50 µ min
Material	LCP

### Cable/line

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Test voltage Core/Core	100 V
Test voltage Core/Shield	100.00 V
Halogen-free	yes
Flame resistance	UL 94 V0

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	20 N
Withdrawal force	< 8 N

## Environmental and real-life conditions

### Test specification

Specification	EIA 364-1000
Frequency	10-55 Hz
Sweep speed	1 octave/min
Amplitude	1.52 mm
Test duration	2.00 h
Contact resistance $R_1$	40.00 m $\Omega$

### Test specification

Specification	60068-2-27
Acceleration	50.00 g
Number of shocks per direction	18.00

### Ambient conditions

Degree of protection (when plugged in)	IP20
Degree of protection (not plugged in)	IP20
Ambient temperature (operation)	-55 °C ... 85 °C

## Standards and regulations

Flame resistance	UL 94 V0
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## Mounting

Mounting type	SMD soldering
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### Processing notes

Process	SMD
Moisture Sensitive Level	MSL 1
Classification temperature $T_c$	260 °C
Solder cycles in the reflow	3

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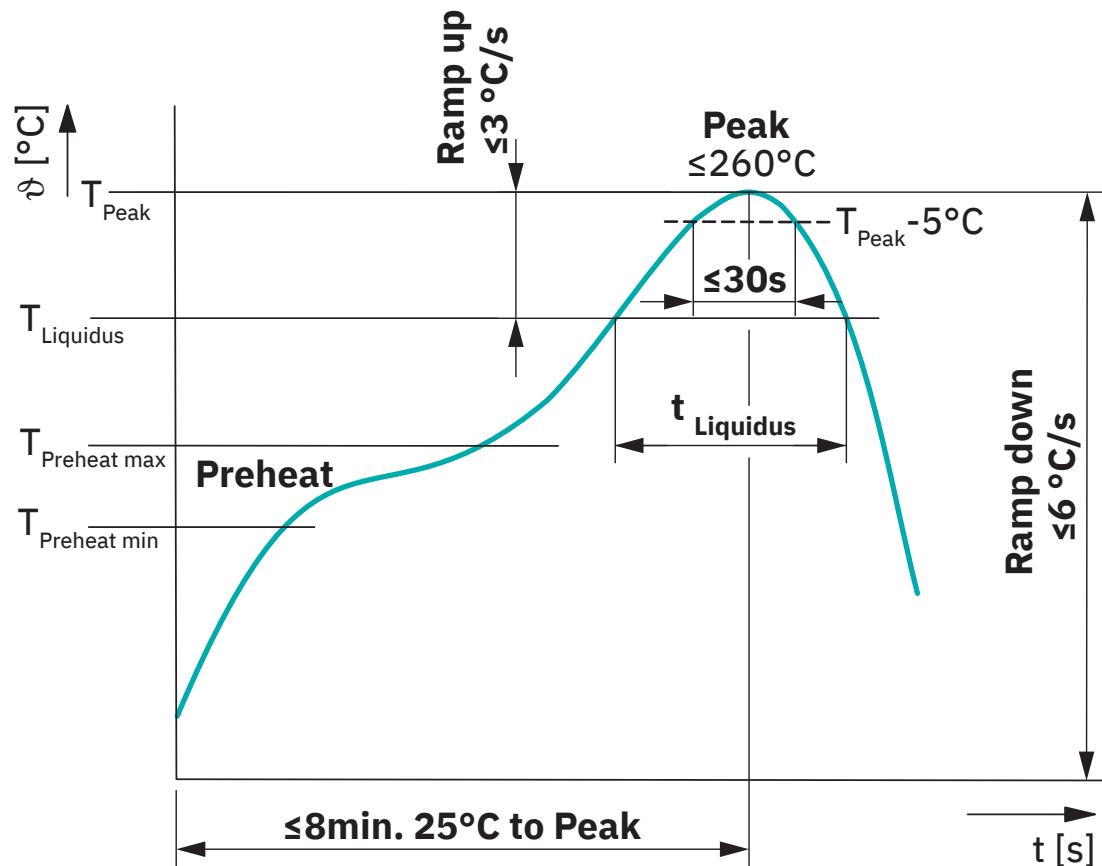


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## Drawings

Diagram



Classification reflow soldering profile

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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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