

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, degree of protection: IP20, number of positions: 24, 10 Gbps, material: Metal, 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)
Type	USB-C
Number of positions	24
Connection profile	USB-C
Type of packaging	Tape and Reel
[W] tape width	24.00 mm
[A] coil diameter	330.00 mm
Number of slots	1
Type	Socket
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	20 V
Rated surge voltage (III/2)	1500 V
Rated current	5 A
Contact resistance	40 mΩ
Frequency range	10 Hz ... 55 Hz
Insulation resistance	100 MΩ
Transmission medium	Copper
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	180.00 °

Material specifications

Color of the housing part	black
Material	Gold-plated Nickel coating 50 μ min

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	Tin coating 100 µ min
	Nickel coating 50 µ min
	LCP
Flammability rating according to UL 94	V0
Housing material	Metal
Contact material	Copper alloy
Contact surface material	Gold over nickel
Contact carrier material	LCP

Cable/line

Test voltage Core/Core	100 V
Test voltage Core/Shield	100.00 V
Acceleration	3.1 m/s ²
Halogen-free	yes

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force per signal contact	20.00 N
Extraction force per signal contact	< 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 mΩ

Test specification

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

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-55 °C ... 85 °C

Mounting

Mounting type	SMD soldering
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Processing notes

Process	SMD
Moisture Sensitive Level	MSL 1

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Classification temperature T_c	260 °C
Solder cycles in the reflow	3

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Classifications

ECLASS

ECLASS-11.0	27440390
ECLASS-12.0	27440390
ECLASS-13.0	27460201

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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com