

CUC-USB3.1-J1ST-AH/UCF-SMD/THR - USB PCB connectors



1332643
<https://www.phoenixcontact.com/us/products/1332643>

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USB PCB connectors, degree of protection: IP20, number of positions: 24, 10 Gbps, material: Metal, connection method: Solder connection, USB 3.0

Your advantages

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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1332643 |
| Packing unit | 800 pc |
| Minimum order quantity | 800 pc |
| Sales key | AB14 |
| Product key | ABNDAC |
| GTIN | 4063151630249 |
| Weight per piece (including packing) | 1.095 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 |
| Sensor type | USB 3.0 |
| 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 |

Data management status

| | |
|------------------|----|
| Article revision | 00 |
|------------------|----|

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 |
|-------------------|-------------------|

Dimensions

| | |
|--------|---------|
| Width | 9.85 mm |
| Height | 3.31 mm |
| Length | 9.87 mm |

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| | |
|----------------|---------|
| Orientation to | 90.00 ° |
|----------------|---------|

Material specifications

| | |
|--|------------------|
| Color of the housing part | black |
| 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) | -25 °C ... 85 °C |

Mounting

| | |
|---------------|---------------|
| Mounting type | THR soldering |
|---------------|---------------|

Processing notes

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| | |
|---|---------|
| Process | THR/SMD |
| Moisture Sensitive Level | MSL 1 |
| 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 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

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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