

# MINI USB 2.0 CONNECTOR

## OVERVIEW

The Mini USB 2.0 connector has a smaller footprint compared to the USB 2.0 connector. It supports high speed data transfer of 480Mb/s.

FCI's Mini USB 2.0 Type B and AB receptacles are designed to meet USB 2.0 specifications, and come in a wide range of mounting and terminating options like right angle, vertical, surface mount and through-hole. It is also specified for up to 5,000 insertion cycles. The full metal shield offers protection from electromagnetic interference and electrostatic discharge.

The connector is used in portable devices for data transmission, media and charging applications.

Mini USB 2.0 connectors are ideal for applications in consumer, industrial and automotive markets.



## FEATURES

- Meets USB 2.0 specification
- Capable of transferring data at 480Mb/s
- Specified for up to 5,000 insertion cycles
- Full metal shielding
- Supports On-The-Go (OTG) specification
- Type B and AB receptacles available
- Smaller interface for portable devices
- Polarized mating geometry
- UL94V-0 flammability rated high temperature thermoplastic housing material

## BENEFITS

- Mating interface follows USB 2.0 specification
- Minimizes user waiting time
- Ensure maximum receptacle-to-PCB retention
- Protection from electromagnetic interference (EMI) and electrostatic discharge (ESD)
- Accessible and convenient for users
- Flexible applications in consumer, industrial and automotive markets
- Suitable for data transmission, media and charging applications
- Prevent mismatching
- High flammability rating





## TECHNICAL INFORMATION

### MATERIALS

- Housing: High Temperature Thermoplastic, Black Color, UL94V-0
- Contact: Copper Alloy with 30u" Gold plating
- Shell: Copper Alloy

### ELECTRICAL PERFORMANCES

- Low Level Contact Resistance: 50mΩ max.
- Insulation Resistance: 100MΩ min.
- Voltage Rating: 30Vrms max.
- Current Rating: 1A per contact
- Dielectric Withstand Voltage: 100 VAC

### ENVIRONMENTAL

- Operating Temperature: -25~85°C

### MECHANICAL PERFORMANCE

- Insertion Force: 35N max.
- Unmating Force: 7N min.
- Durability: 5,000 insertion/ extraction cycles

### SPECIFICATIONS

- Product Specification: GS-12-174
- Packaging Specification: GS-14-873

### PACKAGING

- Tray
- Tape/ Reel

### TARGET MARKETS/APPLICATIONS

- Consumer
  - MP3 Player
  - Laptop Cooler
  - Feature Phone
  - GPS
  - Portable Game Console
  - Mini Speaker
  - Gaming Keyboard
  - Tablet
  - Digital Video Camera
  - Consumer Hard Drive
  - Electric Guitar
- Industrial
  - Surveillance DVR
  - Outdoor Waterproof Camera
- Automotive
  - Automotive Infotainment

## PART NUMBERS

Description	Termination Type	Part Numbers
Mini USB 2.0 Type B receptacle	Right angle, Surface mount	10033526
Mini USB 2.0 Type AB receptacle	Right angle, Surface mount	10033527
Mini USB 2.0 Type B receptacle	Vertical, Through-hole	10119313

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