



USB2.0 Type A & Type B Product Presentation

Basics Portfolio



Agenda



1. Value Proposition
2. Product Overview
3. Product Specifications
4. Features & Benefits
5. Main Markets & Applications
6. Marcomm Tools

USB 2.0



Value Proposition

The wide range of FCI USB2.0 solution includes as USB system, horizontal or vertical solution with single & double deck.

The comprehensive range includes Right angle or Vertical and Through mount (TMT) or surface mount (SMT).

Thanks to the design. USB2.0 solution is easy to be used and with high performance on current rating (2.5A~2.9A) and durability (12000 cycles).

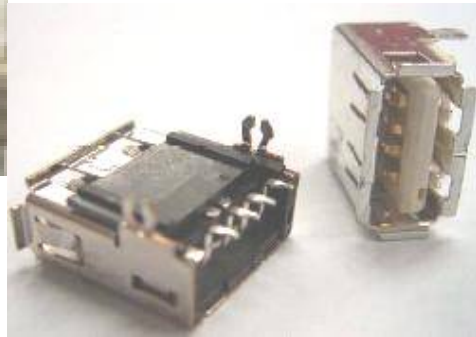
The USB2.0 solutions are available in Type A and Type B.

USB 2.0

Product Overview



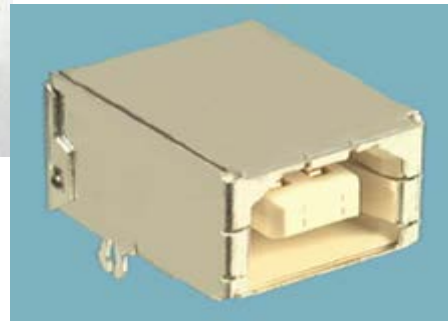
Type A,
Vertical, TMT



Type A, Right
Angle, SMT &TMT



Type A, TMT,
Mid-mount



Type B, Right
Angle, TMT



Type A, Right Angle,
TMT, Double Deck

USB 2.0



Product Specifications

Product Facts

- Meet USB 2.0 specification
- Transfer Super Speed 480Mbps
- Support supports hot plugging
- RoHS compliant
- Lead Free, Halogen Free

Electrical Performances

- Low Level Contact Resistance:
 - initial 30m Ω Max;
 - After test 40m Ω Max
- Current Rating: delivery 2.1A~2.9A Max

Mechanical Performances

- Durability : 1500~12,000 cycles.
- Insertion Force: 35N Max
- Extraction Force: 10N Min

Environmental

- Operating Temperature : -55~85°C

Materials

- Housing : High temperature thermoplastic
- Shell: Copper Alloy or Stainless Steel
- Terminal: Copper Alloy

Specifications

- Application Specification: USB2.0 Industry specification

Packaging

- Tape and Reel
- Tube

USB 2.0

Features & Benefits



Features	Benefits
Robust Design	Durability enough for being used where durability performance need to be quite high(for example CMD, 12000cycles)
Hot plugging	Easy and Quick usage
High current rating 2.1~2.9A	Save end user's time when being used for power
Rohs Compliant, Lead-Free, Halogen-Free	Meets environmental, health and safety requirements

USB 2.0

Main Markets & Applications

Consumer

- Set top box
- Still Digital Camera
- MP3, PDA, mobile phone

Data

- Notebook
- Desktop PC
- Tablets
- Wearable Devices

Industrial and Instrumentation

- Point of sales
- Tester
- Business Equipment
- Automotive, Medical equipment...



USB 2.0

Marcomm Tools

Available on FCI.com

- Product Specification



05-12-26	Product Specification	FCI
USB A TYPE CONNECTOR		
REV	1 of 7	J
APPROVED	APPROVED	05/1/05
AMEND CHANG	05/1/05	
UNRETRACTED		

1.0 GENERAL
This specification defines the performance, tests and quality requirements for the USB A TYPE connector. This document is composed of the following sections.

FCI	PRODUCT SPECIFICATION	05-12-26
USB PRODUCT SPECIFICATION		
REV	1 of 7	J
APPROVED	APPROVED	05/1/05
AMEND CHANG	05/1/05	
UNRETRACTED		

1.0 OBJECTIVE
THIS SPECIFICATION PROVIDES THE PERFORMANCE, TEST, QUALITY AND RELIABILITY REQUIREMENTS OF THE USB (UTERBORG, SERIAL BUS) ENCLUSURE

05-12-26	Product Specification	FCI	REV: 1 of 7	J
USB A TYPE CONNECTOR				
UNRETRACTED				

1.0 GENERAL
This specification defines the performance, tests and quality requirements for the USB A TYPE connector. This document is composed of the following sections.
1. General
2. Scope
3. Applicable Documents
4. Requirements
5. Test Methods and Requirements
6. Test Plan
7. Applicable Part Number and Product Drawing

2.0 SCOPE
This specification is applicable to the termination characteristics of the USB A TYPE family of products which provides interconnection of computer peripherals.

3.0 APPLICABLE DOCUMENTS
3.1 Industry Standards
3.1.1 MIL-STD-203F: Test methods for electronic and electrical component parts.
3.1.2 MIL-STD-1344: Test methods for electrical connectors.
3.2 Industry Specification/Other Standards
3.2.1 UL-94: Tests for flammability of plastic materials.
3.2.2 EIA-754: Electrical connector socket test procedures including environmental classifications.
3.2.3 USB: Universal Serial Bus Specification.

4.0 REQUIREMENT
4.1 Design and Construction
Connector shall be of the design, construction and physical dimensions specified on the applicable product drawing and shall be capable of meeting the qualification test requirements specified herein.
4.2 Materials
4.2.1 Housing
The insulation shall be robot flame-retardant 94V-0 in accordance with UL-94.
4.2.2 Terminal
Copper Alloy.
4.2.3 Shell
Copper Alloy.
4.3 Plating
The leads for applicable components shall be specified on the applicable product drawing.
4.3.1 Contact Area (Lead plating with nickel under-plate).
4.3.2 Solder Tail Area (Lead plating with nickel under-plate).
4.3.3 Shell: Tail-lead plating or Vapor plating.

- Part Numbers

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- Most Popular Configurat
- Mounting style-
- Pin Orientation-
- Plating (Contact area)-
- Plating (Shell)-
- Plating (Tail)-
- Series Number-
- Shell Options-
- Style-

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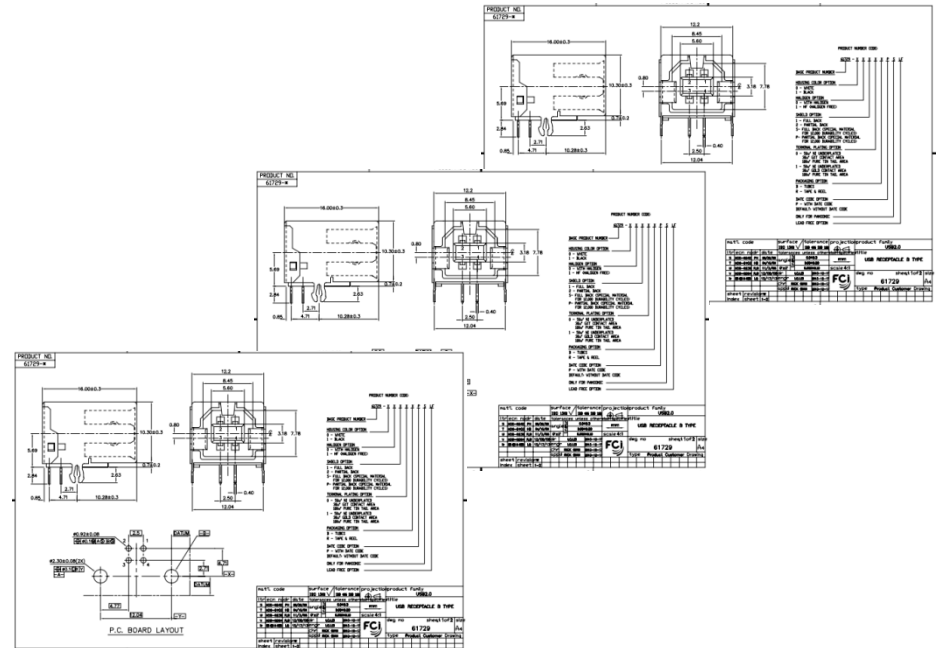
Part Number	Image	Status	Product Name
61729-0010BLF		ACTIVE	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Full Back Shield with Bright Tin Plating, 1.57 mm PCB, White HSG, Tube packing
61729-0010RLF		ACTIVE	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Full Back Shield with Bright Tin Plating, 1.57 mm PCB, White HSG, Tape and Reel packing
61729-0011RPLF		ACTIVE	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Full Back Shield with Bright Tin Plating, 1.57 mm PCB, White HSG, with data code, Tape and Reel packing
61729-0020BLF		ACTIVE	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Partial Back Shield with Bright Tin Plating, 1.57 mm PCB, White HSG, Tube packing
61729-1010RLF		ACTIVE	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Full Back Shield with Bright Tin Plating, 1.57 mm PCB, Black HSG, Tape and Reel packing
61729-1011BLF		FCI-Smarter Service	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Full Back Shield with Bright Tin Plating, 1.57 mm PCB, Black HSG, Tube packing
61729-1011RLF		ACTIVE	Type B, Receptacle, Through Hole, 30u GXT Contact, 4 Pins, Full Back Shield with Bright Tin Plating, 1.57 mm PCB, Black HSG, Tape and Reel packing

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Marcomm Tools

Available on FCI.com

- Drawings





THANK YOU

