

Micro-USB Connector For Multimedia Device Market

DESCRIPTION

Extremely small high reliability connectors comply with physical, electrical and environmental requirements of Micro-USB standard (USB 2.0).

Receptacles and plugs are available in a wide variety of mounting and termination configurations, for use in various applications.

FCI's IO-Connections portfolio provides customers access to a wide range of industry-standard and application-specific I/O interconnect solutions.



FEATURES & BENEFITS

- ▀ **Size reduction**
 Approximately 60% smaller in size compared to FCI's mini-USB connector range
- ▀ **Receptacle styles**
 Two interface configurations: B and AB type standard; mid-mount and reverse mounting styles
- ▀ **Plug styles**
 Used for data transmission, earphone or charging applications
- ▀ **High durability**
 Passive Latching prevents unintentional cable release: 10,000 cycles
- ▀ **RoHS compatible**

TARGET MARKETS / APPLICATIONS

- ▀ PDA
- ▀ Portable music players
- ▀ Digital cameras
- ▀ Rugged handhelds
- ▀ Controller boards
- ▀ Mobile phone
- ▀ Other applications requiring high reliability Micro-USB interface connectors.

TECHNICAL DATA

PHYSICAL

- Contact : Copper alloy
- Contact area : 30μ Au over nickel
- Solder tail area : Au flash over nickel
- Shield : Stainless steel
 - Pure tin plating: 10104110, 10104111, 10103592, 10103594
 - Nickel plating: 10104109, 10103593
- Housing : LCP
 - Black color for B-type
 - Gray color for AB-type
- UL94V-0

ENVIRONMENTAL

- Functional temperature range: -55°C to + 85°C, under test connectors mated without damage

REFERENCE DATA

- Product Specification: GS-12-641

PACKAGING

- GS-14-1461 Tape and reel

ELECTRICAL PERFORMANCE

ITEM	REQUIREMENT	TEST CONDITION
Low Level Contact Resistance	40mΩ Max.	EIA-364-23
Insulation Resistance	Initial 1000MΩ Min.; After 100MΩ Min.	EIA-364-21
Dielectric Withstanding Voltage	100VAC for 1 minute; No Breakdown	EIA-364-20
Temperature Rise	30°C Max.	EIA-364-70

MECHANICAL PERFORMANCE

ITEM	REQUIREMENT		TEST CONDITION
Mating/Un-mating force (initial)	Mating force	35N Max.	EIA-364-09 & EIA-364-13
	Un-Mating force	8N Min.	
Durability	Contact Resistance	40mΩ Max.	
	Appearance	No Breakdown	
	Mating cycles	10,000 cycles at max. rated of 200 cycles per hour	

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CONNECTIONS

PART NUMBERS	PRODUCT DESCRIPTION
10103592-0001LF	Micro-USB B Rec, Reverse
10103593-0001LF	Micro-USB B Rec, STD, Mid-mount
10103594-0001LF	Micro-USB B Rec, STD
10104109-0001LF	Micro-USB B Plug
10104110-0001LF	Micro-USB B Rec, STD
10104111-0001LF	Micro-USB A/B Rec, STD

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