

# USB 3.0 CONNECTORS

## OVERVIEW

The USB 3.0 connector is a standard A receptacle with right angle and vertical styles.

Highly reliable connector compliant with physical, electrical and environmental requirements of USB 3.0.

USB 3.0 standard A receptacle offers the same interface as the USB 2.0 standard A, with added pins for superspeed USB signals.



## FEATURES & BENEFITS

- Minimizes user wait-time
- Backward compatible with USB 2.0 connector
- Over 10 times performance increase compared to USB 2.0
- Support 5Gb/s data rate for fast sync-n-go
- Receptacle styles : Right-angle and vertical mounting
- High durability : Fully mated condition is confirmed by a definite tactile
- RoHS compliant
- Halogen free

## TARGET MARKETS/APPLICATIONS

- Desktop and laptop
- Digital audio
- High volume storage devices
- Scanners
- Game ports
- High definition A/V equipment
- Control boards



## TECHNICAL INFORMATION

### MATERIALS

- Contact : Copper alloy
- Contact area: 30µin. Au or Au flash over nickel
- Tail area: 80µin. min. matte tin plated
- Front shell: Copper alloy
- Back shell: Steel
- Housing & tail guide: High temperature thermoplastic resin, blue color
- UL94V-0

### ELECTRICAL PERFORMANCE

- Low level contact resistance: Initial 30mΩ max. (EIA-364-23)
- Dielectric withstanding voltage : 100V AC (EIA-364-20)
- Operating current rating: 1.8A
- Operating voltage rating: 30V AC RMS
- Insulation resistance: Initial 100mΩ min. (EIA-364-21)

### ENVIRONMENTAL

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

### MECHANICAL PERFORMANCE

- Mating/Un-mating force (initial):
  - Mating force: 35 N max.
  - Un-mating force: 10 N min.
- Durability: 3,500 mating cycles (EIA-364-09)
- Contact resistance: delta R=+/-10mΩ max.
- Appearance: No breakdown
- Mating cycles: 3,500 cycles at max. rated of 200 cycles per hour
- Test condition: EIA-364-09

### SPECIFICATIONS

- GS-12-0928 product specification
- GS-14-2157 packaging specification

### APPROVALS AND CERTIFICATIONS

- UL

### PACKAGING

- Tray

## PART NUMBERS

Description	Part Numbers
USB 3.0 A Receptacle, R/A, 30µin. min. gold	10117835-001LF
USB 3.0 A Receptacle, R/A, Au flash	10117835-002LF
USB 3.0 A Receptacle, Vertical, 30µin. min. gold	10117836-001LF
USB 3.0 A Receptacle, Vertical, Au flash	10117836-002LF

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