

# New Product USB WITH POSITIVE LOCKING

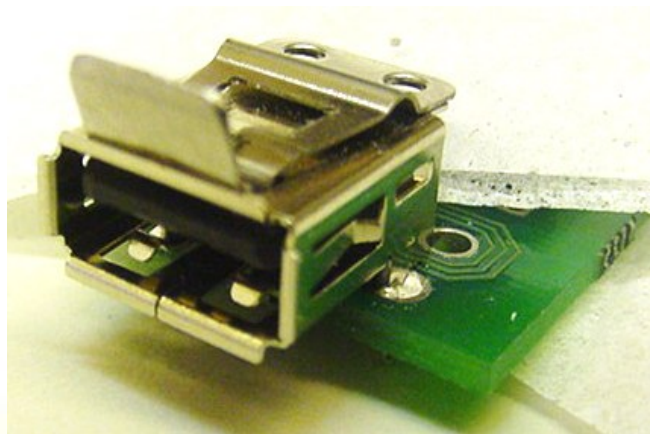
Amphenol

*Now you're connected!*

## LUSB CONNECTOR SERIES

### About Amphenol Commercial Products

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio, Industrial, & Military/Aerospace



U.S. PATENT # 7,128,595

### Description

The standard USB connector uses a push pull interface with no latching. It relies on the design of the mating interface and the ground tabs to maintain the connection of the plug to the receptacle. Currently there are applications in a number of markets where vibration and inadvertent separation of the cable is a potential problem due to loss of data when the mated interface is accidentally broken.

The design of Amphenol Canada's USB, Series A with this unique latching mechanism has been developed to address this major concern of unintentional interruption of data transmission. The latch must be intentionally raised in order to remove the plug. An accidental pull on the cable up to 22 lbs (10 kg) force will not separate the connectors.

### Applications

#### MARKETS:

Industrial

Military

Automotive

#### APPLICATIONS

Medical Equipment

ATM Machines

Lottery Terminals

GPS

Hand Held Data Loggers

Military Vehicles

Military Radio's

Military PDA

Mobile Entertainment Systems

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#### RELATED PRODUCTS

Amphenol manufactures a line of rugged RJ45, rugged USB, rugged D-sub and rugged bulkhead adapters, all meeting IP67. Contact your local Amphenol representative for details.



#### Electrical Properties

Current Rating: 1.5 Amperes  
Contact Resistance: 30 milliohms maximum  
Insulation Resistance: 1000 Mega ohm minimum  
DWV: 500 V AC @ sea level

#### Environmental Properties

Rohs Compliant  
Operating Temperature: -40°C to +85°C  
Thermal Shock: 10 cycles @ +55° C and +85° C  
Humidity: Per EIA 364-31 Condition A Method III

#### Mechanical & Material Properties

Shell: Nickel Plated Brass Alloy  
Housing: High Temperature Thermoplastic UL94V0, Black  
Contacts: Phosphor Bronze, 30 u" gold (0.76 microns) over Nickel  
Locking Tab: Stainless Steel  
Physical Shock: Per EIA 364-27 Condition H (11 ms 30G)  
Vibration: Per EIA 364-28 per Condition V, Letter A (5.35G 15 min/plane)

#### Available Documents

Drawing Number: P-LUSB-A111-00

#### Part Number

LUSB-A111-00

**Amphenol**

Amphenol Canada  
605 Milner Avenue  
Toronto, Ontario, Canada M1B 5X6  
Telephone: 416-291-4401  
Fax: 416-754-8668

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