

# USB Connector

Product Specification S6044C Rev 0.2

Amphenol

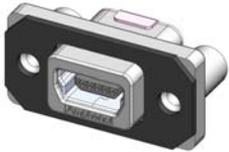
*Now you're connected!*

## 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.

## Related Products

### MUSB

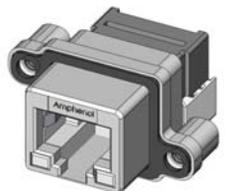


MUSB-B151-34  
SERIES MINI-B, RIGHT  
ANGLE SHOWN

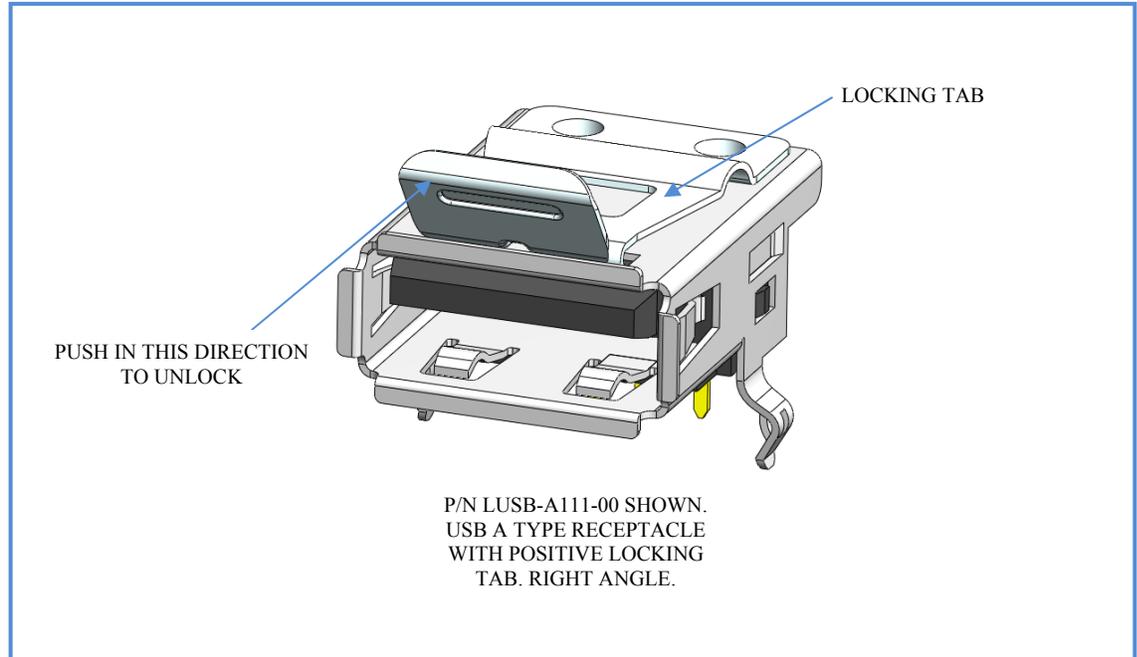


MUSB-C111-30  
SERIES A, RIGHT ANGLE,  
STACKED SHOWN

### MRJ



MRJ-5380-01 SHOWN  
RIGHT ANGLE, PCB TAIL, 8  
POSITION RJ45



## Overview

This Product Specification defines the general use and performance parameters for Amphenol's USB, USB with positive locking series of connectors.

Availability: USB series A, right angle mount PCB.

## Usage

The connector system is designed to provide a standard USB interface with a unique latching mechanism to prevent the 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

Intended for use in applications such as:

- Medical equipment
- ATM machines
- Lottery Terminals
- GPS
- Military Vehicles, radios, PDA
- Hand Held Data Loggers
- Mobile Entertainment Systems

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MRJ-5380-01 SHOWN  
RIGHT ANGLE, PCB TAIL, 8  
POSITION RJ45

## Connector Electrical Characteristics

Maximum current: 1.5A per contact  
Contact resistance: 30 mΩ max  
Insulation Resistance: 1000 MΩ min  
DWV: 500 V AC @ sea level

## Connector Mechanical Characteristics

Standard USB interface  
Thermal Shock: 10 cycles -55°C to +125° C  
Physical Shock: Per EIA-364-27 Condition H (11ms 30G)  
Humidity: Per EIA-364-31B, Method III, Condition B  
Vibration: Per EIA-364-28D per Condition V, Test A  
Durability: 1500 mating cycles  
Insertion Force: 35 N (7.87 lbs) max  
Withdrawal Force: 10 N (2.25 lbs) min

## Material Requirements

LUSB connectors are RoHS compliant.  
Unless otherwise specified, the materials for each component shall be:

### Connector

- Contacts
  - Base material: Copper alloy
  - Plating: 30 μ" (0.76 μm) min Gold over Nickel
- Housing: High temperature thermoplastic, UL94V-0 rated, Black
- Shell
  - Base material: Copper alloy
  - Plating: Nickel
- Locking Tab: Stainless Steel

Temperature rise: Meets the requirement of 30° C ΔT  
Operating temperature -40° to +85° C

## Available Documents

### Drawing Numbers:

P-LUSB-A111-00 LUSB Series A Right Angle Receptacle with Positive Locking Tab  
P-LUSB-A511-00 LUSB Series A Vertical Receptacle with Locking Latch

### QTR:

QTR9300426 Qualification Test Report

# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



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