LUSB Connector Series

Type A, Right Angle with Positive Latch
Product Specification S6044C Rev 0.5

Amphenol

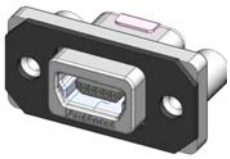
Now you're connected!

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

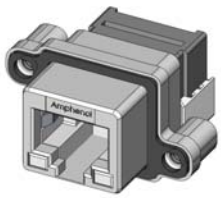


MUSB-B151-34
SERIES MINI-B, RIGHT ANGLE SHOWN

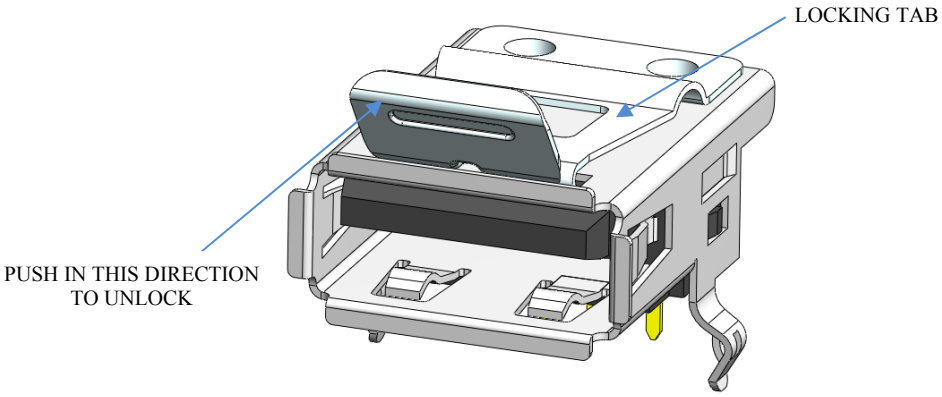


MUSB-C111-30
SERIES A, RIGHT ANGLE, STACKED SHOWN

MRJ



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



P/N LUSB-A111-00 SHOWN.
USB A TYPE RECEPTACLE WITH POSITIVE LOCKING TAB. RIGHT ANGLE.

Overview

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

Availability: USB 2.0 series type A, right angle PCB mount. USB 3.0 series type A, right angle PCB mount available now. USB 2.0 series type A, vertical planned for future release.

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 50N (11.2lbs) force will not separate the connectors.

Applications

Intended for use in applications such as:

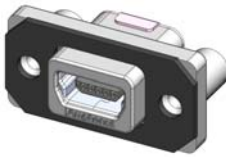
- Medical equipment
- ATM machines
- Lottery Terminals
- GPS
- Miltary Vehicles, radios, PDA
- Hand Held Data Loggers
- Mobile Entertainment Systems

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

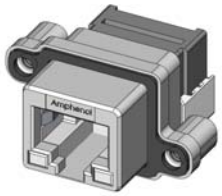


MUSB-B151-34
SERIES MINI-B, RIGHT ANGLE SHOWN



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

MRJ



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

Connector Electrical Characteristics

Maximum current: 1.5A per contact for USB 2.0
1.8A for positions 1 &4 with 0.25A on remaining positions on the USB 3.0
Contact resistance: 30 mΩ max
Insulation Resistance: 1000 MΩ min
DWV: 500 VAC @ sea level

Connector Mechanical Characteristics

Standard USB interface
Thermal Shock: 10 cycles -65°C to +105° 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: 8 N (1.8 lbs) min with latch disengaged

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-3193-00	LUSB Series USB 3.0 Type A Receptacle with Positive Locking Latch
P-LUSB-A511-00	LUSB Series A Vertical Receptacle with Locking Latch

QTR:

QTR9300426	Qualification Test Report

Amphenol Canada Corp.
605 Milner Avenue
Toronto, Ontario, Canada, M1B 5X6
+1 416 291 4401

www.amphenolcanada.com

Copyright © Amphenol Corporation 2015 • All rights reserved

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED FOR MANUFACTURING PURPOSES WITHOUT WRITTEN PERMISSION FROM AMPHENOL CANADA CORP.

Now you're connected!

Product Numbering System

LUSB	-	A	1	1	1	-	00	X

LUSB	Lockable USB Series

	Receptacle Type
	A – Standard A Series per USB 2.0
	3 – Standard A Series per USB 3.0

	Termination Style[1]
	1 – Right angle
	5 – Vertical

	Number of Contacts
	1 – 4 Contacts. Use with USB 2.0 A Series
	9 – 9 Contacts. Use with USB 3.0 A Series

	Insulator Housing Colour
	1 – Black, Standard for USB 2.0 A Series
	3 – Blue, Standard for USB 3.0 A Series

	Other Options
	00 – Standard

	Unique Special Code[1]
	No Digit – Standard part defined by previous 10 digits
	1 to 9 - Unique special feature

Notes:

1) Consult with Amphenol for additional connectors such as vertical or upright (flag) termination styles, contact tail lengths, latch styles or other special requirements

Amphenol Canada Corp.
605 Milner Avenue
Toronto, Ontario, Canada, M1B 5X6
+1 416 291 4401

www.amphenolcanada.com

Copyright © Amphenol Corporation 2015 • All rights reserved

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE OR USED FOR MANUFACTURING PURPOSES WITHOUT WRITTEN PERMISSION FROM AMPHENOL CANADA CORP.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Amphenol:

91614-403ALF 95157-140LF RJSBE5080C2 DAPO15S365TLF 54202-G0805CLF 65781-158
67996-204HLF 70234-112LF 70430-164LF 86093967896755LF 68000-236HLF 863013A DCMF37P
70218-1116LF CD15S13E4RV09LF D15P13A6RV12LF RJE061661210 68001-200HLF 69192-408HLF
76384-316LF 86093488314745V1LF DEM09P032N 68002116HLF 86130202123355E1LF 54202-S08-07LF
68001-108HLF 86093968191755E3LF 86093968813H45V1LF LD15P33E4GV00LF LD25S33E4GV00LF