

LUSB Series Lockable USB Connectors

LOCKABLE AND HIGHLY RELIABLE RUGGED USB SOLUTION

Amphenol's LUSB series Lockable USB Connectors serve many markets and applications across the globe including Automotive, Communications, Consumer, Data, Industrial and Medical.

- Locking latch locks USB connector in position
- Ensures secure data transmission
- Easy to install and remove
- RoHS compliant to meet environmental standards



TARGET MARKETS



FEATURES

- Standard USB connector interface with unique latching mechanism
- USB 2.0 and USB 3.0 right angle configurations available
- Locking latch must be intentionally raised to remove plug
- Performs up to 1500 mating cycles
- RoHS compliant

BENEFITS

- Stable and reliable USB mating performance
- Suitable for most applications with USB ports
- Prevents accidental disconnection
- High durability which translates into cost savings for customers
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Insulator Housing: High Temperature Resistant Engineering Thermoplastic, Glass Reinforced, UL940V-0 Flammability Rating, Halogen Free, Colour per Ordering Code
- Contacts: Phosphor Bronze, Plated with 0.76um min. Gold over 1.27um min. Nickel on the mating area and 2.54um min. Matte Tin over Nickel on the contact tails
- Shield: Copper Alloy, Solderable Nickel Plated
- Latch: Stainless Steel

MECHANICAL PERFORMANCE

- Insertion Force: Per EIA-364-13, 35N (7.9lbf)max
- Extraction Force: Per EIA-364-13, 8N (1.8lbf)min with Latch Disengaged
- Retention Force: 50N min. with Latch Engaged
- Durability: Per EIA 364-09, 1500 Mating Cycles (with Latch Activation for each Cycle)
- Vibration: Per EIA 364-28 Random Condition V, Letter A, No Discontinuity > 1us
- Shock: Per EIA 364-27 Test Condition H (11ms, 30g, 1/2 Sine), No Discontinuity > 1us

SPECIFICATION

- Amphenol Product Specification: USB 2.0 or 3.0

APPROVALS AND CERTIFICATIONS

- RoHS

ENVIRONMENTAL

- Solderability: Per EIA-364-52, 95% Coverage after Category 2 Steam Aging
- Temperature Life w/o Load: Per EIA-364-17, 105°C, 1000 Hours
- Thermal Shock: Per EIA-364-32 -65°C to +105°C, 10 Cycles
- Humidity: Per EIA-364-31, 10 Cycles, 240 Hrs, 25°C to 65°C, 90-95%RH, with -10°C Cold Shock
- Mixed Flowing Gas: Per EIA 364-65 Class IIA (CL2, NO2, H2S, & SO2), 14 Day Exposure
- Solvent Resistance: Isopropyl Alcohol & 5% Sodium Hydroxide Solution, 24 Hrs Each

PACKAGING

- Box

TARGET MARKETS/APPLICATIONS



Car Navigation Systems
Display Cluster
Electric Vehicle



AC/DC pluggable power supplies
Base Station
Datacom
Optical Transport
Routers
Switches
Telecom



Home Entertainment Equipment
Refrigerator



Data Center
External Portable Storage
High Density Ethernet switching
Router and Server
Storage System



Chemical Detection System
Industrial Control Equipment
Energy Meter
Gaming Machine
Lighting
Measuring Equipment
Parking Meter
POS Machine
Renewable Energy
Robotics
Smart Meter
Vending Machines



Analyzers
Medical Diagnostics
Ultrasound Equipment

PART NUMBER SELECTOR

LUSB

—

X

X

X

X

00

X

Receptacle Type

A

Standard A Series per USB 2.0

3

Standard A Series per USB 3.0

Unique Special Code

No Digit

Standard part defined by previous 10 digits

1 to 9

Unique special feature

Other Options

00

Standard

Termination Style

1

Right Angle

5

Vertical

Insulator Housing Colour

1

Black, Standard for USB 2.0 A Series

3

Blue, Standard for USB 3.0 A Series

Number of Contacts

1

4 Contacts. Use with USB 2.0 A Series

9

9 Contacts. Use with USB 3.0 A Series

Mouser Electronics

Authorized Distributor

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[LUSB-3593-00](#) [LUSB3193002](#)