

# **MUSBR Series Rugged USB 3.0 Connectors**

# Type A

# RUGGED USB CONNECTOR FOR HARSH ENVIRONMENT APPLICATION

Amphenol's Product Line of Rugged USB3.0 connectors serve many markets and applications cross the globe including Medical, Industrial, Telecommunication, DataComm, etc.

- Ideal options to seal connection interface
- Available with Right Angle or Vertical on PCB
- Available in Single Port or Stacked Version
- Operating temperature range from -55°C to +105°C for extreme conditions
- RoHS compliant to meet environmental standards



#### **FEATURES**

- Provide a great IP67 water/dust proof performance
- Interface is sealed in both the mated and un-mated conditions
- Meet Military Shock & Vibration levels
- Connectors mate with any certified standard USB2.0 or USB3.0 Type A Plug
- Achieve data rate up to 5 Gb/s (USB3.1 Gen 1)
- RoHS compliant

### **BENEFITS**

- Great solution for sealing
- All condition covered
- Great Harsh Environment Application
- Friendly mating interface
- Upgraded data transmission to support busy data flow
- Meets environmental, health and safety requirements

# **TECHNICAL INFORMATION**

#### **MATERIAL**

- External Shell: Die Cast Zinc, Nickel Plated
- Contacts: Phosphor Bronze with 30u" min Gold over 50u" min Nickel
- Housing: Engineering Thermoplastic, UL94V-0 Rated. Blue

#### **MECHANICAL PERFORMANCE**

• Durability: 1500 Mating Cycle

#### **ELECTRICAL PERFORMANCE**

• Current Rating: 1.5A per contact

• Contact Resistance:  $30m\Omega$  max

Insulation Resistance: 1000MΩ

• Dielectric Withstanding Voltage: 500VAC @ sea

level

### **SPECIFICATION**

Amphenol Product Specification: USB 3.0

#### **ENVIRONMENTAL**

- Thermal Shock: 5 cycles at -40°C to +125°C
- Humidity: Per EIA364–31 Condition C, Method III
- Salt Spray: Per EIA364-26, 250hrs

#### **APPROVALS AND CERTIFICATIONS**

RoHS

### **PACKAGING**

Tray

## **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 NUMBERS**

Description	Туре	Part Numbers
MUSBR Series Rugged USB 3.0	Single Port, Right Angle, Unified Thread	MUSBR-3193-30
MUSBR Series Rugged USB 3.0	Single Port, Vertical, Unified Thread	MUSBR-3593-30
MUSBR Series Rugged USB 3.0	Stacked, Right Angle, Unified Thread	MUSBR-4193-30
MUSBR Series Rugged USB 3.0	Stacked, Vertical, Unified Thread	MUSBR-4593-30
MUSBR Series Rugged USB 3.0	Single Port, Right Angle, Metric Thread	MUSBR-3193-M0
MUSBR Series Rugged USB 3.0	Single Port, Vertical, Metric Thread	MUSBR-3593-M0
MUSBR Series Rugged USB 3.0	Stacked, Right Angle, Metric Thread	MUSBR-4193-M0
MUSBR Series Rugged USB 3.0	Stacked, Vertical, Metric Thread	MUSBR-4593-M0