

# 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  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$  for extreme conditions
- RoHS compliant to meet environmental standards



#### TARGET MARKETS



#### 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: 30mΩ 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	Type	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