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

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, UL94–0 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