

## Rugged MRU Series USB 2.0

### IP67-RATED HARSH ENVIRONMENT USB 2.0 TYPE A CONNECTOR

Amphenol's MRU series of USB 2.0 Type A connectors provide IP67 protection for enclosures per IEC 60529. With data rates up to 480Mb/s, the connector series is designed to provide a standard USB interface for enclosures exposed to harsh environments. While these connectors are offered as mating pairs, the receptacles can also mate with any other standard USB 2.0 plug. This connector series is suitable for industrial, telecommunication, data-com, medical, energy, transportation, etc.

- Offers a standard USB mating interface; no special plug side solution required
- IP67 protection for enclosures per IEC 60529
- RoHS compliant
- UL94V-0 high temperature resistant housing
- Operating temperature range from  $-45^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$



#### TARGET MARKETS



#### FEATURES

- Standard USB type A mating interface
- UL94V-0 rated high temperature resistant housing
- Available as mating combination of both panel-mount receptacle and cable-side plug
- Locking features
- RoHS compliant

#### BENEFITS

- No special cable/plug side solution required
- Wide operating temperature of  $-45^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$
- Solution enables IP67 application environment
- Provides secure mating and data transmission
- Meets environmental, health and safety standards

# TECHNICAL INFORMATION

## MATERIAL

- Housing and Nut: Glass filled thermoplastic, UL94 V-0, black
- Gasket and Seals: Silicon rubber shield, stainless steel
- PCB: FR4 fiberglass
- Contacts: Copper alloy plated with gold over nickel
- Shield: Stainless steel

## MECHANICAL PERFORMANCE

- Number of Contacts: 4
- Wire Gauge (where applicable): 24AWG/28AWG (power/signal)
- Cable Range (where applicable): 3.50mm to 6.80mm OD
- Environmental Protection: IP67 per IEC 60529
- Durability: 1500 mating cycles
- Operating Temperature: -45°C to +85°C

## ELECTRICAL PERFORMANCE

- DWV 500 VAC / 1 minute @ sea level
- Speed: 480Mb/s
- Contact Resistance: 30mΩ max.
- Insulation Resistance: 1000MΩ min.
- Current Rating: 1.5A

## PACKAGING

- Box

## APPROVALS AND CERTIFICATIONS

- RoHS compliant per EU directive 2011/65/EU and amendments

## SPECIFICATION

- Product Specification: S6148C Rev 1.0

## ENVIRONMENTAL

- RoHS compliant

## TARGET MARKETS/APPLICATIONS



Base Station  
Power



Router  
Server



Power Generation  
Automation  
Smart Grid  
LED Lighting  
Robotics



MRI  
Ultrasonic  
CT  
Monitoring

# PART NUMBERS

Description	Part Numbers
MRU Series bayonet lock plug, PCB for hard wire termination	MRUAM214000
MRU Series panel mount bayonet lock receptacle, vertical PCB tail termination	MRUAF411000
MRU Series panel mount bayonet lock receptacle, with pig tail termination	MRUAF4120XX