

# IP67 Metal Bayonet Latching USB Type A

## IP67-RATED RUGGEDIZED USB 3.0 TYPE A LATCHING CONNECTORS & CABLES MRUSERIES

Amphenol's MRU series of USB 3.0 Type A Connectors and Cables provide IP67 protection in a circular form factor for Cable-to-Panel applications.

These connectors have metal bodies with Metal Bayonet Coupling and 4-hole screw mount rectangular flange receptacles, designed to provide solutions for a variety of environments and applications, including Industrial, Telecommunications, Datacom, Medical, Energy, Transportation, etc.

- Provides a standard USB Type A mating interface
- IP67 protection for enclosures per IEC 60529
- RoHS-compliant
- UL94V-0 high-temperature resistant housing
- Operating temperature range from  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- All metal housing and latching construction
- Circular metal coupling ring bayonet latching
- Available as factory made overmolded cable assemblies and adapters



### FEATURES

- Standard USB Type A mating interface
- UL94V-0 rated high-temperature insulators
- Overmolded cable, adapter configurations
- Metal Bayonet Coupling Ring on plug
- RoHS-compliant
- USB 3.0 performance
- Metal construction

### BENEFITS

- Receptacle can be mated to standard IP20 USB plug
- Operating temperature range of  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- Suitable for many user-defined configurations
- Secure latching to ensure IP67 performance
- Meets environmental and safety standards
- 5Gb data rate for fast transfer speeds
- Extremely durable for harsh environments

# TECHNICAL INFORMATION

## MATERIAL

- Housing: Zinc Alloy, Chrome plated
- Nut: Zinc Alloy, Chrome plated
- Clamp Body & End Cap: Aluminum Alloy
- USB Housing: Thermoplastic LCP, UL94V-0
- Internal PCB: FR-4 Fiberglass, Lead Free, UL94V-0
- Grommets & O-Rings: Silicone rubber
- Over-Molding: PVC
- USB Shield: Copper Alloy, Nickel plated
- USB Contact: Copper Alloy plated with Gold over Nickel
- Cable USB3.0: AWM 20276, 80°C 30V VW-1

## ELECTRICAL PERFORMANCE

- Current Rating: 0.9A per charging contact  
0.25A per data contact
- Voltage Rating: 5VDC
- Contact Resistance: 30mΩ max.
- DWV: 100VAC/1 minute @ sea level
- Insulation Resistance: 100MΩ min.
- Data Rate: 5Gb/s

## MECHANICAL PERFORMANCE

- Durability: 1500 Mating cycles
- Wire Gauge: 24AWG (Charging Contacts)  
28AWG (Data Contacts)

## PACKAGING

- Box

## APPROVALS & CERTIFICATION

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

## ENVIRONMENTAL

- Ingress Protection: IP67 Per IEC 60529 in mated condition
- Operating Temperature Range: -40°C to +80°C
- RoHS compliant per EU directive 2011/65/EU and amendments

## TARGET MARKETS/APPLICATIONS



Datacom Telecom



HMI's



Server Storage



Energy Industrial



Medical



Robotics

PART NUMBERS

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

| Description                                                                     | Part Numbers  |
|---------------------------------------------------------------------------------|---------------|
| Cable Assembly, USB 3.0 Type A, IP67, Bayonet Plug to IP20 Plug, 0.5m           | MRU-BMC1-6050 |
| Receptacle, USB 3.0 Type A, IP67, 4 Hole Flange Mount, Bayonet, with Dust Cover | MRU-BF91-5000 |

\* Other cable lengths and configurations available – Consult Amphenol Sales

PART NUMBER SELECTOR

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

MRU

—

B

F

9

1

—

5

0

XX

UGGED USB SERIES CIRCULAR

USB Generation

B

B – USB-3.0 TYPE A (24mm SIZE)

Connector Type

F

M – Plug

F – Receptacle

Connector Engage & Mounting Feature

9

9– Bayonet, Metal, Panel Mount, 4 MTG Holes

C– Bayonet, Metal, Cable Assembly

Plating

1

1 – Gold Flash at Mating Area Standard

Termination

5

5 – Receptacle Adapter IP67 to IP20

6 – Cable IP67 Plug to IP20 Plug

8 – Cable IP67 Plug to IP67 Plug

Dust Cover Options

0

No Dust Cover

Cable Length

XX

00 – No Cable

20 to 99 – Overall Cable Length in CM (20 To 99 CM)

Cable Length

| FIRST X |        | SECOND X |        |
|---------|--------|----------|--------|
| CODE    | METERS | CODE     | METERS |
| A       | 1.0    | 0        | 0      |
|         |        | 1        | 0.1    |
| B       | 2.0    | 2        | 0.2    |
|         |        | 3        | 0.3    |
| C       | 3.0    | 4        | 0.4    |
|         |        | 5        | 0.5    |
| D       | 4.0    | 6        | 0.6    |
|         |        | 7        | 0.7    |
| E       | 5.0    | 8        | 0.8    |
|         |        | 9        | 0.9    |

Example:  
A0 = 1.0m  
B7 = 2.7m

ACPAIP67MBLUSBA025EA4