

# 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 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
- Metal coupling ring bayonet latching
- Available as factory made overmolded cable assemblies and adapters



### TARGET MARKETS



### 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



Telecom  
Datacom  
IoT's



Human Machine Interface (HMI)



Data Management  
Cyber security



Manufacturing  
Power Generation  
Oil & Gas



Healthcare  
Automotive  
Retail



Digital Health & Telemedicine  
Biotechnology

## ▶ IP67 Metal Bayonet Latching USB Type A

### PART NUMBERS

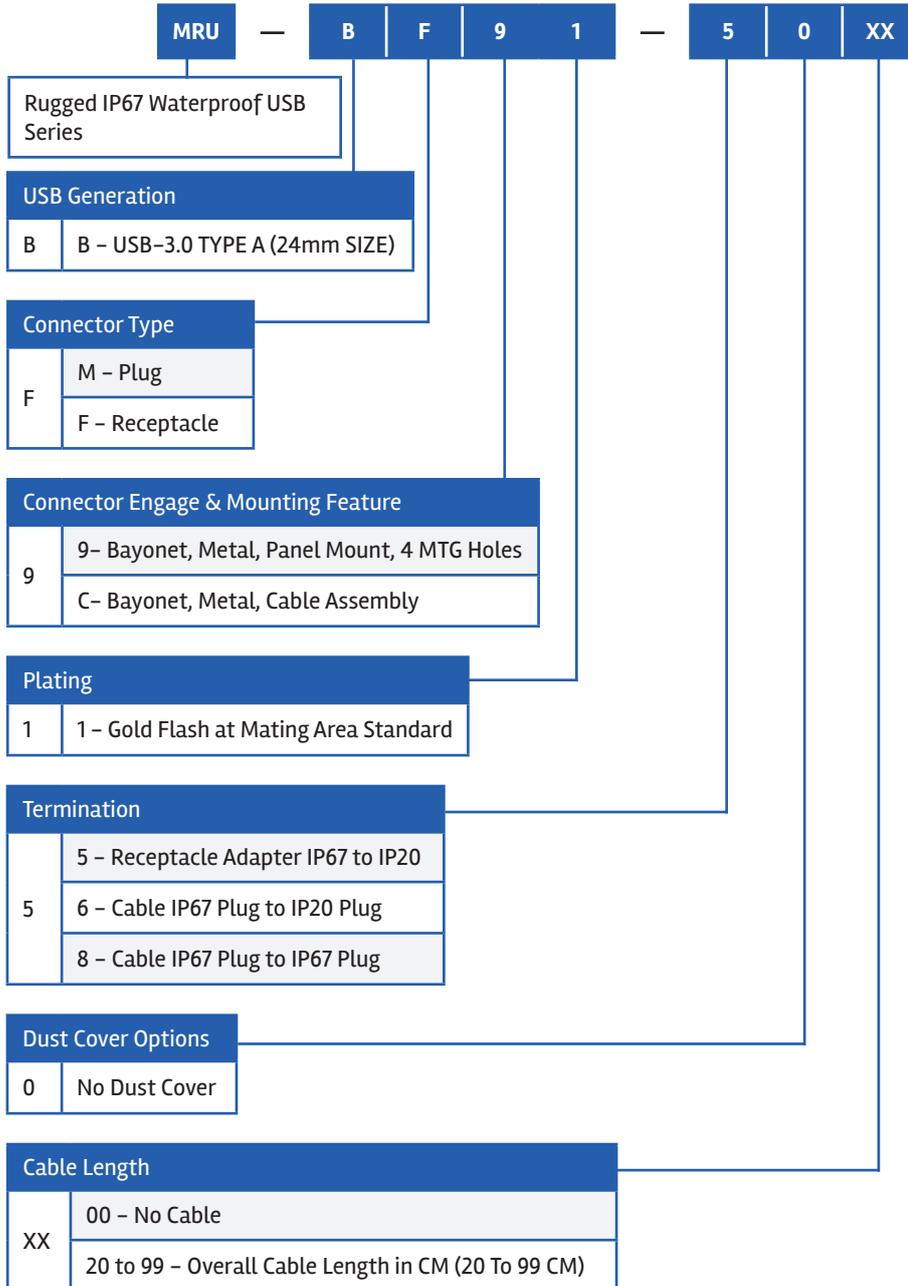
Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)

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 – RUGGED IP67 WATERPROOF USB SERIES

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



#### 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