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°C to +80°C
- All metal housing and latching construction
- Circular 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°C to +80°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

HMIs

Server Storage

Energy Industrial

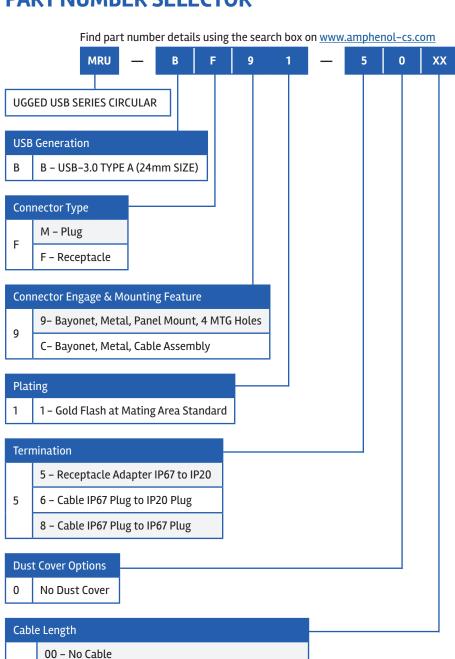Medical

Robotics

▶ IP67 Metal Bayonet Latching USB Type A

PART NUMBERS

Find part number details using the search box on 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

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

www.amphenol–cs.com

Disclaimer
Please note that the above information is subject to change without notice.