Amphenol

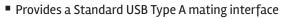


IP67 All-Plastic Latching USB Type A

IP67-RATED RUGGEDIZED USB 2.0/3.0 TYPE A LATCHING CONNECTORS & CABLES MRU SERIES

Amphenol's MRU series of USB 2.0 & 3.0 Type A Connectors and Cables provide IP67 protection in a circular form factor for Cable-to-Panel applications.

These connectors have all-plastic construction with Bayonet Coupling and Jam-Nut mounted panel receptacles and are designed to provide solutions for a variety of environments and applications, including Industrial, Telecommunications, Datacom, Medical, Energy, Transportation, etc.



- IP67 protection for enclosures per IEC 60529
- RoHS-compliant
- UL94V-0 high-temperature resistant housing
- Operating temperature range from -20°C to +80°C
- Available as factory-made overmolded cable assemblies and adapters
- Receptacles have integrated sealing cap

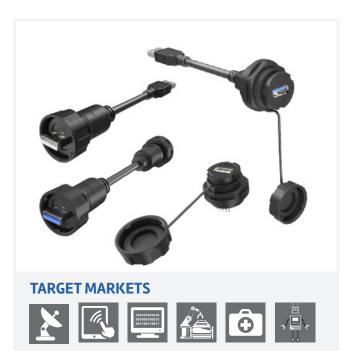
FEATURES

- Standard USB Type A mating interface
- UL94V-0 rated high-temperature housing and inserts
- Overmolded cable, adapter or pcb tail terminations
- Plastic Bayonet Coupling ring on plug
- RoHS-compliant
- USB 2.0 and USB 3.0 performance options
- All-plastic construction

BENEFITS

- Receptacle can be mated to standard IP20 USB plug
- Operating temperature range of -20°C to +80°C
- Suitable for many user-defined configurations
- Secure latching to ensure IP67 performance
- Meets environmental and safety standards
- Meets variety of data rate requirements
- Economical for cost sensitive applications

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TECHNICAL INFORMATION

MATERIAL

- Housing: Thermoplastic PBT, UL94V-0
- Nut: Thermoplastic PBT, UL94V-0
- USB Housing: Thermoplastic PBT, UL94V-0
- Gaskets & Seals: Silicone rubber
- Over–Molding: PVC
- USB Shield: Steel Alloy, Nickel plated
- USB Contact: Copper Alloy plated with Gold over Nickel
- Cable USB2.0: AWM 2025, 80°C 30V VW-1
- Cable USB3.0: AWM 20276, 80°C 30V VW-1

ELECTRICAL PERFORMANCE

- Current rating:
- USB 2.0: 0.5A per Charging Contact

0.25A per Data Contact

• USB 3.0: 0.9A per Charging Contact

0.25A per Data Contact

- Voltage rating 5VDC
- Contact Resistance: 30mΩMax
- Dielectric Withstanding Voltage (DWV):
- USB 2.0: 500VAC/1 minute @ sea level
- USB 3.0: 100VAC/1 minute @ sea level
- Insulation Resistance:
 - USB 2.0: 500MΩ min.
 - USB 3.0: 100MΩ min.
- Data Rate:
- USB 2.0: 480Mb/s
- USB 3.0: 5Gb/s

MECHANICAL PERFORMANCE

- Durability: 500 Mating cycles
- Wire Gauge:
 - 24AWG (Charging Contacts)
 - 28AWG (Data Contacts)

APPROVALS AND CERTIFICATIONS

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

PACKAGING

Box

ENVIRONMENTAL

- Ingress Protection: IP67 Per IEC 60529 in mated condition
- Operating Temperature Range: -20°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



PART NUMBERS

Find part number details using the search box on <u>www.amphenol-cs.com</u>

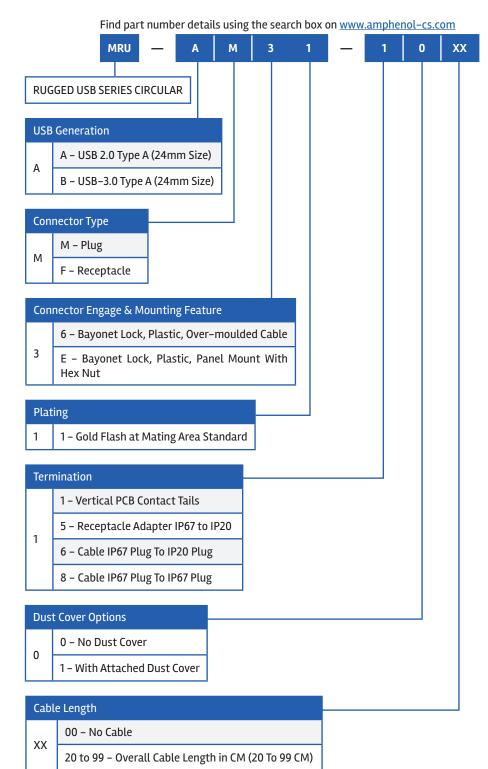
Description	Part Numbers
Cable Assy, USB 2.0 Type A, IP67 Bayonet Plug to IP20 Plug, 1m	MRU-AM61-60A0
Cable Assy, USB 3.0 Type A, IP67 Bayonet Plug to IP20 Plug, 1m	MRU-BM61-60A0
Receptacle, USB 2.0 Type A, IP67 Bayonet, Jam Nut Mount to IP20 Receptacle, with Dust Cover	MRU-AFE1-5100
Receptacle, USB 3.0 Type A, IP67 Bayonet, Jam Nut Mount to IP20 Receptacle, with Dust Cover	MRU-BFE1-5100
Cable Assy, USB 2.0 Type A, IP67 Bayonet Plug to IP67 Bayonet Plug, 1m	MRU-AM61-80A0
Cable Assy, USB 3.0 Type A, IP67 Bayonet Plug to IP67 Bayonet Plug, 1m	MRU-BM61-80A0
Cable Assy, USB 2.0 Type A, IP67 Bayonet Receptacle, Jam Nut Mount to IP20 Plug, 1m	MRU-AFE1-61A0
Cable Assy, USB 3.0 Type A, IP67 Bayonet Receptacle, Jam Nut Mount to IP20 Plug, 1m	MRU-BFE1-61A0
Receptacle, USB 2.0 Type A, IP67 Bayonet, Jam Nut Mount, PCB solder tails	MRU-AFE1-1100

* Other cable lengths and configurations available - Consult Amphenol Sales

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IP67 All-Plastic Latching USB Type A

PART NUMBER SELECTOR



Cable Length

FIRST X		SECOND X	
CODE	METERS	CODE	METERS
А	1.0	0	0
		1	0.1
В	2.0	2	0.2
		3	0.3
С	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

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