



Overview

Amphenol RF offers MMCX connectors and cable assemblies designed for micro-coax cable types. These 50 ohm cable assemblies are ideal for applications with space constraints such as IoT infrastructure and consumer devices.

These assemblies feature maximum flexibility and secure mating to ultraminiature interfaces. Using the MMCX mounted externally on a panel, the micro-coax termination can be routed easily within an enclosure to mate with the appropriate AMC or AMC4 PCB or adapter interface. This option is well-suited for external antennas with an MMCX plug interface.

MMCX plug to AMC or AMC4 assemblies are also available. This configuration can be used to make connections between PCBs or modules in tight spaces.

Features and Benefits

- Broadband performance with low reflection
- Quick connect/disconnect snap-on mating
- Wide variety of configurations and cable types

Applications

- Wi-Fi Access Points
- Broadband Connectivity
- GPS Units
- External Antenna Connections
- Handheld Devices

Amphenol RF

Four Old Newtown Road
Danbury, CT 06810

For more information visit www.amphenolrf.com
or call 800.627.7100

Ordering Information

MMCX Ultraminiature Connectors

Cable Type	Straight Bulkhead Jack – Rear Mount	Straight Plug	Right-Angle Plug
0.81 mm	-	908-43000	-
1.13 mm	262141	908-41000	908-43001
1.32 mm DS	262145	262143	262144
1.31 mm	262148	262146	262147
RG-178	262120	262100	262102

MMCX Ultraminiature Adapters

Part Number	Description
242225	MMCX Jack to AMC Jack Adapter

MMCX to AMC Ultraminiature Cable Assemblies

Part Number	Description
095-900-553-XXX	MMCX Right-Angle Plug to AMC Right-Angle Plug, 1.13 mm
095-900-554-XXX	MMCX Straight Plug to AMC Right-Angle Plug, 1.13 mm
095-900-557-XXX	MMCX Straight Bulkhead Jack to AMC Right-Angle Plug, 1.13 mm

MMCX to AMC4 Ultraminiature Cable Assemblies

Part Number	Description
095-900-563-XXX	MMCX Right-Angle Plug to AMC4 Right-Angle Plug, 0.81 mm
095-900-555-XXX	MMCX Right-Angle Plug to AMC4 Right-Angle Plug, 1.13 mm
095-900-556-XXX	MMCX Straight Plug to AMC4 Right-Angle Plug, 1.13 mm
095-900-558-XXX	MMCX Straight Bulkhead Jack to AMC4 Right-Angle Plug, 1.13 mm

Note: 'XXX' denotes length code. See available lengths in chart below.

Standard Lengths Available

Length Code	Length in Inches (Millimeters)
-006	6.00 in (152.40 mm)
-010	10.00 in (254 mm)
-012	12.00 in (305 mm)
-024	24.00 in (610 mm)
-036	36.00 in (914.40 mm)
-048	48.00 in (1219.20 mm)
M050	19.69 in (500 mm)
M100	39.37 in (1000 mm)
M200	196.85 in (5000 mm)

Technical Specifications

Connectors

Electrical

Impedance		50Ω
Frequency Range		DC - 6 GHz
Voltage Rating		170 Volts RMS Max Continuous
Dielectric Withstanding Voltage		500 VRMS Max
VSWR (Return Loss)	DC - 4 GHz	1.25 (-19 dB) Max
	4 - 6 GHz	1.40 (-16 dB) Max
Insulation Resistance		500 MΩ Min
Center Contact Resistance		10 mΩ Min
Outer Contact Resistance		5 mΩ Min

Environmental

Temperature Range	-40°C to +90°C
RoHS Compliance	Compliant with Exemption 6C

Mechanical

Mating Cycles	500 Min
Coupling Mechanism	Push-On

Materials

Body	Brass, Gold Plated
Contact	Brass, Gold Plated
Insulator	PTFE, Natural

Cable Assemblies

Electrical

	MMCX	AMC	AMC4
Impedance	50Ω		
Frequency Range	DC - 6 GHz		

Mechanical

Mating Cycles	500 Min	30 Min
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Materials

Body	Brass	Phosphor Bronze, Gold Plated	Phosphor Bronze, Silver Plated
Female Contact	Beryllium Copper	Phosphor Bronze, Gold Plated	Phosphor Bronze, Gold Plated
Male Contact	Brass		
Insulator	PTFE	PBT	High Temp Engineering Plastic

Note: Technical specifications are typical and may vary by specific part number. Please see component drawing.

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