



MMCX Product
Series Solutions
Guide

50 Ohm Solutions

ABOUT AMPHENOL RF

Amphenol RF, a division of Amphenol Corporation, is the largest manufacturer of radio frequency connectors, coaxial adapters and RF cable assemblies in the world.

With a global team of experienced engineers, Amphenol RF is able to offer the broadest portfolio of standard RF products on the market today.

As a leader in design and manufacturing of RF interconnect products, our dedicated team of engineers specialize in custom product development to meet the challenges of design-specific constraints.

GLOBAL PRESENCE



With a global presence, Amphenol RF has experienced engineers and production capabilities in multiple regions across the globe. Our experienced cross-functional teams oversee the entire process from the initial design through delivery, and beyond.

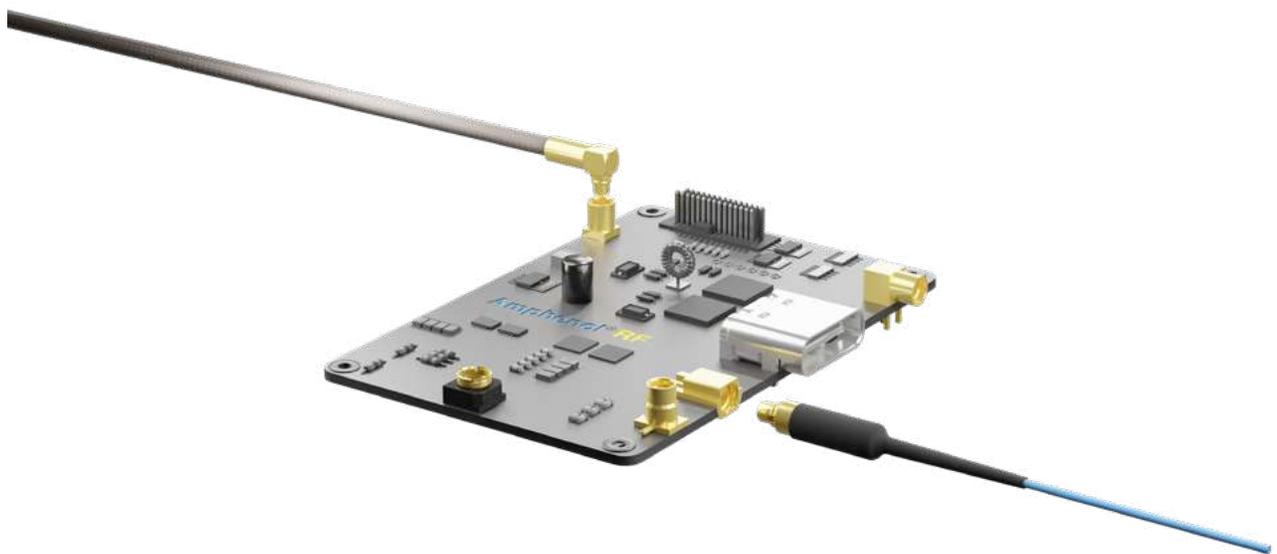
Amphenol RF has a global footprint of operations in North America, Europe and Asia.

MMCX PRODUCT SERIES

The MMCX connector series delivers RF connectivity in compact, space-constrained designs. Engineered for 50 ohm systems, these connectors support frequencies from DC to 6 GHz, making them ideal for high-speed data, video systems and wireless communication modules.

Featuring a snap-on coupling mechanism, MMCX connectors offer quick, secure mating without tools, simplifying both field assembly and production. With a 3.5 mm outer diameter, about 30% smaller than the MCX interface, they are perfect for tight PCB layouts and densely packed enclosures. All MMCX connectors meet IEC 61169-52 dimensional standards and are rated for a minimum of 500 mating cycles, ensuring long-term mechanical reliability and consistent electrical performance.

The MMCX portfolio includes a broad range of configurations, including straight and right-angle plugs and jacks, surface-mount, through-hole and end-launch PCB connectors, as well as cable- and panel-mount options. Cable terminations support flexible, semi-rigid and micro coax types, giving engineers maximum flexibility for signal integrity, routing and system integration. High-quality materials, such as gold-plated brass and precision-machined contacts, provide durability, corrosion resistance and stable performance over time. The extensive portfolio also includes in-series and between-series adapters, as well as pre-configured cable assemblies on standard cable types.



The MMCX product series is available in a variety of board-to-board and cable-to-board configurations for versatile design capabilities.

MMCX PRODUCT SERIES

FEATURES AND BENEFITS

- Broadband performance with low reflection DC to 6 GHz
- High-quality solution at a low cost
- Quick connect/disconnect snap-on mating reduces installation time
- Conforms to European IEC 61669-52 specifications
- Ideal for compact spaces or densely packed enclosures
- Accommodates a wide range of miniature RG flexible coaxial cables, including semi-rigid cable, providing customers flexibility in their design and manufacturing

APPLICATIONS

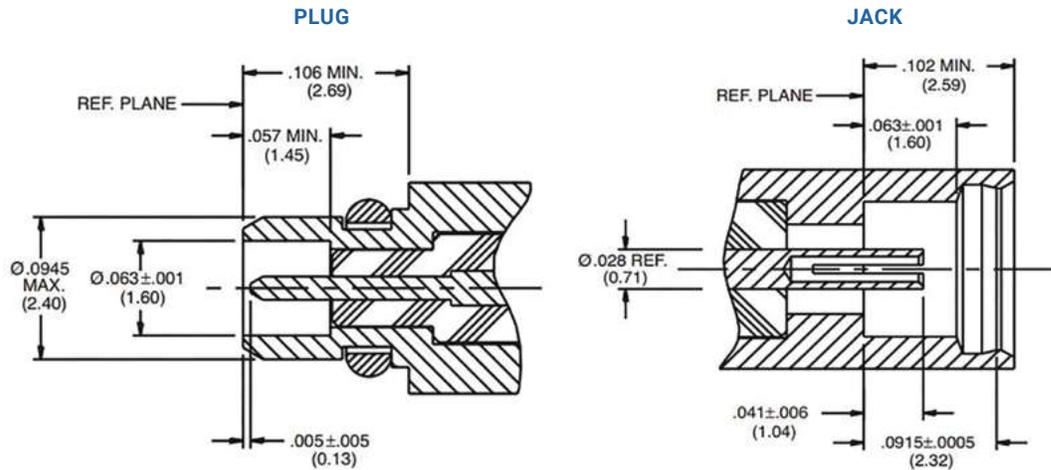
- Wireless communication modules (Wi-Fi, Bluetooth and IoT transceivers)
- GNSS/GPS systems
- Antennas and antenna modules
- Test and measurement equipment
- Medical electronics and wearable devices
- Telecommunication infrastructure
- Industrial automation and control systems
- Drones and unmanned systems
- Navigation and tracking systems
- Portable and handheld RF devices
- Video transmission equipment and broadcast systems
- Embedded computing and RF development boards

NON-MAGNETIC SOLUTIONS

Manufactured using non-ferrous materials and plating, non-magnetic MMCX connectors provide design options for sensitive applications. These products can be found in medical applications like MRIs and patient tracking systems or in quantum computing components.

MMCX PRODUCT SERIES

INTERFACE DIMENSIONS



PCB MOUNT CONNECTORS

MMCX PCB mount connectors are available in straight and right-angle configurations with surface mount, through-hole, or end launch termination options. These compact connectors provide reliable 50 ohm performance up to 6 GHz and are ideal for high-density board designs where space is limited. Components are available in standard packaging to support a range of production requirements.

Through Hole PCB



Part Number	Gender	Orientation	Body Finish	Body Material	Features
262104	Jack	Straight	Gold	Brass	
262105	Jack	Right Angle	Gold	Brass	Post length 2.5 mm
262105-11	Jack	Right Angle	Gold	Brass	Post length 1.64 mm
262114	Plug	Straight	Gold	Brass	4 legs
262114-10	Plug	Straight	Gold	Brass	0 legs
908-22106	Jack	Straight	Gold	Brass	
908-24100	Jack	Right Angle	Gold	Beryllium Copper	Non-Magnetic
908-NM24100	Jack	Right Angle	White Bronze	Beryllium Copper	Non-Magnetic

Surface Mount PCB



Part Number	Gender	Orientation	Body Finish	Body Material	Features
262109	Jack	Straight	Gold	Brass	
262116	Jack	Straight	Gold	Brass	Molded LCP Housing
908-22101	Jack	Straight	Gold	Beryllium Copper	
908-22101B	Jack	Straight	Gold	Beryllium Copper	Bulk Packaging
908-22101T	Jack	Straight	Gold	Beryllium Copper	Tape & Reel Packaging
908-22101-TC	Jack	Straight	Gold	Beryllium Copper	Non-Magnetic, Tape & Reel Packaging
908-22109	Jack	Straight	Gold	Brass	
908-22116	Jack	Straight	Gold	Brass	
908-NM22100	Jack	Straight	White Bronze	Beryllium Copper	Non-Magnetic
908-NM22109	Jack	Straight	Gold	Beryllium Copper	Non-Magnetic

End Launch PCB



Part Number	Gender	Orientation	Body Finish	Body Material	Features
262106	Plug	Straight	Gold	Brass	
262107	Jack	Straight	Gold	Brass	Cut-Out Mounting Style
908-22100	Jack	Straight	Gold	Brass	Cut-Out Mounting Style
908-22100T	Jack	Straight	Gold	Brass	Tape & Reel Packaging

CABLE MOUNT CONNECTORS

MMCX cable mount connectors are designed to provide secure, high-quality terminations for coaxial cables, ensuring reliable RF signal transmission to compatible devices and equipment. Their ultra-compact size and dependable performance make them ideal for space-constrained applications where signal integrity is critical, such as wireless communication modules, GPS systems, and portable RF devices.

Cable Mount Solder - Straight



Part Number	Gender	Body Finish	Body Material	Cable Type	Features
262112	Plug	Gold	Brass	0.085/0.086-Inch Conformable & Semi-Rigid RG-405	
262123	Jack	Gold	Brass	0.085/0.086-Inch Conformable & Semi-Rigid RG-405	
262124	Jack	Gold	Brass	0.085/0.086-Inch Conformable & Semi-Rigid RG-405	Bulkhead Rear Mount
262125	Jack	Gold	Brass	0.047-inch Conformable	
262126	Jack	Gold	Brass	0.047-inch Conformable	Bulkhead Rear Mount
262127	Plug	Gold	Brass	0.047-inch Conformable	
908-41600	Plug	Gold	Brass	0.047-inch Conformable	

Cable Mount Solder - Right Angle



Part Number	Gender	Body Finish	Body Material	Cable Type	Features
262113	Plug	Gold	Brass	0.085/0.086-Inch Conformable & Semi-Rigid RG-405	
262128	Plug	Gold	Brass	0.047-inch Conformable	
908-43400	Plug	Gold	Brass	0.085/0.086-Inch Conformable & Semi-Rigid RG-405	

Cable Mount Crimp - Straight



Part Number	Gender	Body Finish	Body Material	Cable Type	Features
262100	Plug	Gold	Brass	RG-178 RG-196	
262101	Plug	Gold	Brass	RG-174 RG-188 RG-316 Times LMR-100A	13 mm overall length
262110	Plug	Gold	Brass	RG-316DS/RD-316	
262117	Jack	Gold	Brass	RG-178 RG-196	
262118	Jack	Gold	Brass	RG-174 RG-188 RG-316 Times LMR-100A	

Cable Mount Crimp - Straight, Continued



Part Number	Gender	Body Finish	Body Material	Cable Type	Features
262119	Jack	Gold	Brass	RG-316DS/RD-316	
262120	Jack	Gold	Brass	RG-178 RG-196	Bulkhead Rear Mount
908-41300	Plug	Gold	Brass	RG-174 RG-188 RG-316 Times LMR-100A	15.75 mm overall length
908-41500	Plug	Gold	Brass	RG-316DS/RD-316	
908-42300-RFX	Jack	Gold	Brass	RG-174 RG-188 RG-316 Times LMR-100A	
908-NM41200	Plug	White Bronze	Beryllium Copper	RG-178 RG-196	Non-Magnetic

Cable Mount Crimp - Right Angle



Part Number	Gender	Body Finish	Body Material	Cable Type	Features
262102	Plug	Gold	Brass	RG-178 RG-196	
262103	Plug	Gold	Brass	RG-174 RG-188 RG-316 Times LMR-100A	
262111	Plug	Gold	Brass	RG-316DS/RD-316	
262147	Plug	Gold	Brass	1.37 mm Micro-cable	
908-43001	Plug	Gold	Brass	1.13 mm Micro-cable	
908-43200	Plug	Gold	Brass	RG-178 RG-196	
908-43300	Plug	Gold	Brass	RG-174 RG-188 RG-316 Times LMR-100A	
908-43500	Plug	Gold	Brass	RG-316DS/RD-316	
908-NM43200	Plug	White Bronze	Beryllium Copper	RG-178 RG-196	Non-Magnetic
908-NM43300	Plug	White Bronze	Beryllium Copper	RG-174 RG-188 RG-316 Times LMR-100A	Non-Magnetic

ADAPTERS

IN-SERIES ADAPTERS

In-series MMCX adapters connect two coaxial cables with MMCX interfaces, providing stable and reliable RF signal transmission between components. Their compact design and secure snap-on coupling make them ideal for space-constrained applications that demand consistent signal integrity, such as wireless communication modules, GPS systems and other high-frequency electronic equipment.

MMCX to MMCX



Part Number	Orientation	Adapter Side 1	Adapter Side 2	Features
262129	Straight	MMCX Jack	MMCX Jack	
262130	Straight	MMCX Jack	MMCX Jack	Bulkhead
262136	Straight	MMCX Plug	MMCX Jack	

BETWEEN-SERIES ADAPTERS

Between-series MMCX adapters connect MMCX interfaces to a variety of other RF connector types, enabling easy integration between components with different interface requirements. Engineered for reliable signal transmission and consistent electrical performance, these adapters are well-suited for high-frequency applications such as wireless communication systems, GPS modules and navigation equipment.

MMCX to N-Type



Part Number	Orientation	Adapter Side 1	Adapter Side 2	Features
242166	Straight	MMCX Jack	N-Type Plug	
242168	Straight	MMCX Jack	N-Type Jack	

MMCX to RP-SMA



Part Number	Orientation	Adapter Side 1	Adapter Side 2	Features
242141RP	Straight	MMCX Jack	RP-SMA Jack	

MMCX to SMA



Part Number	Orientation	Adapter Side 1	Adapter Side 2	Features
242140	Straight	MMCX Jack	SMA Plug	
242141	Straight	MMCX Plug	SMA Plug	
242142	Straight	MMCX Plug	SMA Plug	
242143	Straight	MMCX Jack	SMA Jack	
242193	Straight	MMCX Plug	SMA Jack	Bulkhead
242237	Straight	MMCX Jack	SMA Jack	Bulkhead

CABLE ASSEMBLIES

Pre-configured MMCX cable assemblies are available in a range of configurations and lengths to suit various design requirements. Engineered for reliable RF performance, these assemblies provide low-loss, low-interference signal transmission, making them ideal for high-frequency applications that demand precision, durability, and consistent signal integrity.

MMCX to MMCX



Part Number	Connector 1	Connector 2	Cable Type	Features
095-900-548XXXX	MMCX Straight Plug	MMCX Straight Plug	RG-174	
095-900-549XXXX	MMCX Right Angle Plug	MMCX Straight Plug	RG-174	
095-900-550XXXX	MMCX Right Angle Plug	MMCX Right Angle Plug	RG-174	
265101-01-XX.XX	MMCX Straight Plug	MMCX Straight Plug	RG-316	
265101-08-XX.XX	MMCX Straight Plug	MMCX Straight Plug	RG-178	
265103-01-XX.XX	MMCX Right Angle Plug	MMCX Straight Plug	RG-316	
265104-01-XX.XX	MMCX Right Angle Plug	MMCX Right Angle Plug	RG-316	
265104-08-XX.XX	MMCX Right Angle Plug	MMCX Right Angle Plug	RG-178	

MMCX to AMC



Part Number	Connector 1	Connector 2	Cable Type	Features
095-900-553-XXX	MMCX Right Angle Plug	AMC Right Angle Plug	1.13 mm Micro-cable	
095-900-554-XXX	MMCX Straight Plug	AMC Right Angle Plug	1.13 mm Micro-cable	
095-900-557-XXX	MMCX Straight Jack	AMC Right Angle Plug	1.13 mm Micro-cable	Bulkhead

MMCX to AMC4



Part Number	Connector 1	Connector 2	Cable Type	Features
095-900-555-XXX	MMCX Right Angle Plug	AMC4 Right Angle Plug	1.13 mm Micro-cable	
095-900-556-XXX	MMCX Straight Plug	AMC4 Right Angle Plug	1.13 mm Micro-cable	
095-900-558-XXX	MMCX Straight Jack	AMC4 Right Angle Plug	1.13 mm Micro-cable	Bulkhead
095-900-563-XXX	MMCX Right Angle Plug	AMC4 Right Angle Plug	0.81 mm Micro-cable	

MMCX to BNC



Part Number	Connector 1	Connector 2	Cable Type	Features
095-850-206-XXX	MMCX Straight Plug	BNC Straight Jack	RG-174	Bulkhead
095-850-207-XXX	MMCX Right Angle Plug	BNC Straight Jack	RG-316	Bulkhead
095-850-301XXXX	MMCX Right Angle Plug	BNC Straight Jack	RG-316	Bulkhead, IP67
095-850-302XXXX	MMCX Straight Plug	BNC Straight Jack	RG-316	Bulkhead, IP67

MMCX to RP-SMA



Part Number	Connector 1	Connector 2	Cable Type	Features
245102-08-XX.XX	MMCX Right Angle Plug	RP-SMA Straight Jack	RG-178	Bulkhead

MMCX to SMA



Part Number	Connector 1	Connector 2	Cable Type	Features
095-902-438-XXX	MMCX Right Angle Plug	SMA Straight Jack	Tflex 405	Bulkhead
095-902-485-XXX	MMCX Right Angle Plug	MMCX Straight Plug	RG-316	
095-902-529XXXX	MMCX Straight Plug	SMA Straight Jack	RG-316	Bulkhead
245106-01-XX.XX	MMCX Right Angle Plug	SMA Straight Jack	RG-316	Bulkhead
245106-02-XX.XX	MMCX Right Angle Plug	SMA Straight Jack	RG-174	Bulkhead
245107-02-XX.XX	MMCX Straight Plug	SMA Straight Jack	RG-174	Bulkhead
245108-01-XX.XX	MMCX Right Angle Plug	SMA Right Angle Jack	RG-316	Bulkhead
245110-08-XX.XX	MMCX Straight Plug	SMA Straight Jack	RG-178	Bulkhead

TECHNICAL SPECIFICATIONS

Electrical

Impedance	50 Ohm
Frequency Range	DC - 6 GHz
Voltage Rating	170 Volts RMS 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 Max
Outer Contact Resistance	10 mΩ Max
RF Leakage (Interface)	
Insertion Loss	.1 √(f(GHz)) dB Max
Passive Intermodulation	63 W Max @ 1 GHz

Environmental

Temperature Range	-40°C to +90°C
Thermal Shock	MIL-STD-202, Method 107
Corrosion	MIL-STD-202, Method 101 (Test Condition B) - 5% Salt Solution
Vibration	IEC 61669-52
Mechanical Shock	MIL-STD-202, Method 213, Condition B
Moisture Resistance	MIL-STD-202, Method 103, Condition B

Mechanical

Mating Cycles	500 Min
Coupling Mechanism	Push-On
Interface Specification	CECC 22220
Engagement Force	< 30 N
Disengagement force	> 8 N @ 1 - 5 Mating Cycles

Note: Technical specifications are typical and may vary by specific part number and design. See component drawing for additional details.

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about our MMCX
product portfolio

