



Overview

Amphenol RF offers non-magnetic MCX connectors in PCB and cable-mount configurations with straight and right-angle options. These coaxial configurations are designed with non-ferrous materials and plating to eliminate magnetic interference in sensitive applications. Non-magnetic MCX connectors provide the same high-performance as standard options and are ideal for demanding environments.

These connectors feature a 'NM' marking to clearly identify them as non-magnetic products and eliminate potential mix-ups during the installation of multiple components.

Features and Benefits

- Engineered from non-ferrous materials
- Reliable electrical performance up to
- Snap-on locking mechanism
- Compact design for dense PCB layouts or small cabling schemes
- Compatible with non-magnetic bullet adapters

Applications

- Medical
 - Magnetic Resonance Imaging (MRI)
 - Magnetic Resonance Angiography (MRA)
 - Patient Tracking Systems
- Mil-Aero
- Quantum Computing

Amphenol RF
 Four Old Newtown Road
 Danbury, CT 06810

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

Ordering Information

Non-Magnetic MCX PCB Connectors

Part Number	Configuration
919-NM109J-51P	Straight Through Hole Jack
919-NM118J-51P	Straight Surface Mount Jack
919-NM119J-51A	Right-Angle Through Hole Jack
919-NM174P51A1X	Right-Angle Through Hole Plug
919-NM305J-51P	Right-Angle Surface Mount Jack
919-NM448P-51P	Straight Through Hole Plug
919-NM449P-51P	Straight Surface Mount Plug

Non-Magnetic MCX Cable Connectors

Part Number	Configuration	Cable Type
919-NM101P-51S	Straight Crimp Plug	RG-174
919-NM104P-51A	Right-Angle Crimp Plug	RG-174
919-NM122P-51A	Right-Angle Crimp Plug	RG-178

Amphenol[®] RF

Technical Specifications

Electrical

Impedance	50Ω
Frequency Range	DC – 6 GHz
Return Loss	1.50 Max
Dielectric Withstanding Voltage	1000 VRMS Min

Environmental

Temperature Range	-40°C to +155°C
RoHS Compliance	Compliant with Exemption 6C

Mechanical

Mating Cycles	500 Min
Coupling Mechanism	Push-On

Materials

Body	Beryllium Copper, Albaloy or White Bronze Plating
Contact	Beryllium Copper, Gold Plated
Insulator	Delrin & Teflon or PTFE

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

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