

# Amphenol® RF MCX CABLE ASSEMBLIES FOR WIRELESS MODULES

## Between-Series Board-to-Panel Configurations on RG-316



### Overview

Amphenol RF offers MCX straight and right-angle plug configurations that feature rugged bulkhead SMA, RP-SMA, TNC, RP-TNC and N-Type straight jacks. These assemblies are designed on flexible RG-316 cable which provides high heat resistance, durability and low signal loss, and is ideal for high-frequency RF applications.

These between-series assemblies allow a cable to be connected from outside of a panel where a threaded interface is located. They are specifically designed for wireless communication modules with MCX connectors in the board. The combination of MCX and more robust connectors offers a variety of options for usage. The connectors that are on the outside of the panel are sealed to prevent temporary ingress of water and other fluids. This eliminates the risk of the system being compromised due to external elements.

### Features and Benefits

- Reliable electrical performance up to 6 GHz
- Ideal for short-distance, low frequency RF applications
- IP67-rated connector options
- Secure panel-mount configurations

### Applications

- Portable IoT Devices
- Drones
- GPS/GNSS
- Wi-Fi
- Agriculture & Construction Vehicles
- Industrial & Mining Equipment

### Amphenol RF

Four Old Newtown Road  
Danbury, CT 06810

For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

### Ordering Information

#### MCX Plug to SMA Straight Bulkhead Jack

| Part Number     | Description                                           |
|-----------------|-------------------------------------------------------|
| 095-900-647-XXX | MCX Straight Plug to SMA Straight Bulkhead Jack       |
| 095-900-648-XXX | MCX Straight Plug to RP-SMA Straight Bulkhead Jack    |
| 095-900-649-XXX | MCX Right-Angle Plug to RP-SMA Straight Bulkhead Jack |

#### MCX Plug to TNC Straight Bulkhead Jack

| Part Number     | Description                                           |
|-----------------|-------------------------------------------------------|
| 095-900-650-XXX | MCX Straight Plug to TNC Straight Bulkhead Jack       |
| 095-900-651-XXX | MCX Right-Angle Plug to TNC Straight Bulkhead Jack    |
| 095-900-652-XXX | MCX Straight Plug to RP-TNC Straight Bulkhead Jack    |
| 095-900-653-XXX | MCX Right-Angle Plug to RP-TNC Straight Bulkhead Jack |

#### MCX Plug to N-Type Straight Bulkhead Jack

| Part Number     | Description                                           |
|-----------------|-------------------------------------------------------|
| 095-900-654-XXX | MCX Straight Plug to N-Type Straight Bulkhead Jack    |
| 095-900-655-XXX | MCX Right-Angle Plug to N-Type Straight Bulkhead Jack |

*Note: '-XXX' denotes length code. See chart below for available lengths.*

#### Standard Lengths Available

| Length Code | Length in Inches |
|-------------|------------------|
| -003        | 3"               |
| -004        | 4"               |
| -005        | 5"               |
| -006        | 6"               |
| -007        | 7"               |
| -008        | 8"               |
| -009        | 9"               |
| -010        | 10"              |
| -011        | 11"              |
| -012        | 12"              |
| -018        | 18"              |
| -024        | 24"              |
| -036        | 36"              |
| M100        | 39.37" (1 Meter) |
| -048        | 48"              |

*Contact Amphenol RF for custom lengths.*

## Technical Specifications

### Electrical

|                                 |              |
|---------------------------------|--------------|
| Impedance                       | 50Ω          |
| Frequency Range                 | DC – 6 GHz   |
| Dielectric Withstanding Voltage | 700 VRMS Min |

### Environmental

|                   |                             |
|-------------------|-----------------------------|
| Temperature Range | -40°C to +80°C              |
| RoHS Compliance   | Compliant with Exemption 6C |

### Mechanical

|                    |                  |
|--------------------|------------------|
| Coupling Mechanism | Snap-On/Threaded |
|--------------------|------------------|

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

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