

## SMA Male to RA MCX Plug Cable RG-174 Coax

**FMCA10063**

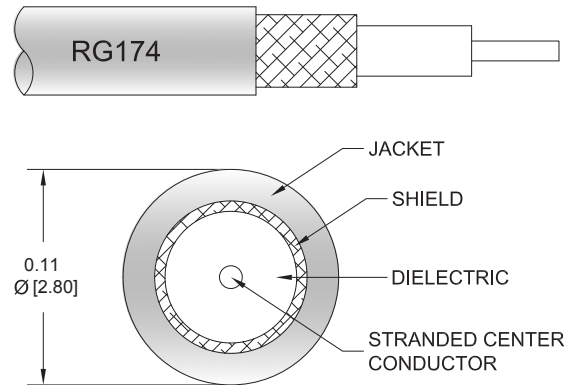


### Configuration

- Connector 1: SMA Male
- Connector 2: MCX Plug Right Angle
- Cable Type: RG-174
- Coax Flex Type: Flexible

### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

The SMA male to RA MCX plug cable using RG174 coax, part number FMCA10063, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MCX cable assembly has a male to plug gender configuration with 50 ohm flexible RG-174 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10063 SMA male to MCX plug cable assembly operates to 1 GHz. The right angle MCX interface on the RG-174 cable allows for easier connections in tight spaces.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

### Specifications by Frequency

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### FMCA10063



Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
FMCA10063	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.21	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
FMCA10063-12	12 Inch	Insertion Loss (Typ.)	0.54	0.59	0.67	0.77	dB	0.16
FMCA10063-24	24 Inch	Insertion Loss (Typ.)	0.62	0.73	0.88	1.09	dB	0.432
FMCA10063-36	36 Inch	Insertion Loss (Typ.)	0.71	0.87	1.09	1.41	dB	0.568
FMCA10063-48	48 Inch	Insertion Loss (Typ.)	0.79	1	1.3	1.73	dB	2.064
FMCA10063-72	72 Inch	Insertion Loss (Typ.)	0.96	1.28	1.72	2.37	dB	2.743

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.25 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.16 pounds
Additional Weight per Inch:	0.07833 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.16 lbs [72.57 g]

### Cable

Cable Type	RG-174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MCX Plug Right Angle
Specification		CECC 22220
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	15 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	200 µin minimum	

### Environmental Specifications

Operating Range Temperature -40 to +60 deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

## SMA Male to RA MCX Plug Cable RG-174 Coax

### FMCA10063



#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA10063**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: FMCA10063-12 = 12 inches long cable  
FMCA10063-100cm = 100 cm long cable

SMA Male to RA MCX Plug Cable RG-174 Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male to RA MCX Plug Cable RG-174 Coax FMCA10063](https://www.fairviewmicrowave.com/sma-male-to-ra-mcx-plug-cable-rg-174-coax-fmca10063)

URL: <https://www.fairviewmicrowave.com/sma-male-to-ra-mcx-plug-cable-rg-174-coax-fmca10063-p.aspx>

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FMCA10063 CAD Drawing  
SMA Male to RA MCX Plug Cable RG-174 Coax

