



## RA SMA Male to RA SMA Male Cable RG223 Coax

The RA SMA male to RA SMA male cable using RG223 coax, part number FMC00229, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00229 SMA male to SMA male cable assembly operates to 4 GHz. The right angle SMA interfaces on the RG223 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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	Min	Т	ур Мах	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		ć	66	%
Capacitance		30.8 [	101.05]	pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

### Performance by Frequency

F1	F2	F3	F4	F5	Units
0.1	0.25	0.5	1	4	GHz
0.039	0.06	0.09	0.134	0.291	dB
0.13	0.2	0.3	0.44	0.95	
	0.1	0.1     0.25       0.039     0.06	0.1     0.25     0.5       0.039     0.06     0.09	0.1     0.25     0.5     1       0.039     0.06     0.09     0.134	0.1     0.25     0.5     1     4       0.039     0.06     0.09     0.134     0.291

#### **Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB per connector.

### **Mechanical Specifications**

### **Cable Assembly**

Length\* 0 in [0 mm] Weight 0.063 lbs [28.58 g]

#### **Cable**

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1

RG223 50 Ohms Solid Copper, Silver

PE 2

Silver Plated Copper Braid



# **Configuration:**

- SMA Male Right Angle
- SMA Male Right Angle
- RG223

### Features:

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

# **Applications:**

- General Purpose
- · Laboratory Use

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Shield Layer 2 Silver Plated Copper Braid

Jacket Material PVC, Black

Jacket Diameter 0.209 in [5.31 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

### **Connectors**

Description	Connector 1	Connector 2				
Туре	SMA Male	SMA Male				
Specification	MIL-STD-348A	MIL-STD-348A				
Impedance	50 Ohms	50 Ohms				
Contact Material & Plating	Brass, Gold	Brass, Gold				
Contact Plating Spec.	50 μin minimum	50 µin minimum				
Dielectric Type	PTFE	PTFE				
Body Material & Plating	Brass, Gold	Brass, Gold				
Body Plating Spec.	3 µin minimum	3 µin minimum				
Coupling Nut Material & Platin	g Brass, Gold	Brass, Gold				
Coupling Nut Plating Spec.	3 µin minimum	3 µin minimum				
Hex Size	5/16 inch	5/16 inch				

# **Environmental Specifications**

**Temperature** 

Operating Range

-40 to +80 deg C

**Compliance Certifications** (see product page for current document)

### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### **How to Order**

Part Number Configuration:

FMC00229 - xx uu | cm = Centimeters | cblank > = Inches | Length

Example: FMC00229-12 = 12 inches long cable

FMC00229-100cm = 100 cm long cable





RA SMA Male to RA SMA Male Cable RG223 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA SMA Male to RA SMA Male Cable RG223 Coax FMC00229

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise

URL: https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-rg223-coax-fmc00229-p.aspx

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