

## SMA Female to BNC Female Cable in 100 CM Length Using RG223 Coax

The SMA female to BNC female cable using RG223 coax, part number FMCA2703-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to BNC cable assembly has a female to female 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 FMCA2703-100CM SMA female to BNC female cable assembly operates to 4 GHz. 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	Typ	Max	Units
Frequency Range	DC		4	GHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.34	0.41	0.5	0.64	1.16	dB/ft
	1.12	1.35	1.64	2.1	3.81	dB/m

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 39.37 in [100 cm]  
 Weight 0.0888 lbs [40.28 g]

#### Cable

Cable Type RG223  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material PVC, Black



### Configuration:

- SMA Female
- BNC Female
- RG223

### Features:

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

### Applications:

- General Purpose
- Laboratory Use

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Jacket Diameter 0.21 in [5.33 mm]  
One Time Minimum Bend Radius 1 in [25.4 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Female	BNC Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	
Contact Plating Spec.	50µ in. minimum.	
Dielectric Type	PTFE	
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100µ in. minimum.	

**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:

**FMCA2703 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMCA2703-12 = 12 inches long cable  
FMCA2703-100cm = 100 cm long cable

SMA Female to BNC Female Cable in 100 CM Length Using 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: [SMA Female to BNC Female Cable in 100 CM Length Using RG223 Coax FMCA2703-100CM](#)

URL: <https://www.fairviewmicrowave.com/sma-female-to-bnc-female-cable-rg223-coax-in-100-cm-and-rohs-fmca2703-100cm-p.aspx>

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