

## Low Loss RA BNC Male to RA BNC Male Cable RG-223 Coax in 100 CM

The RA BNC male to RA BNC male 100 cm cable using RG-223 coax, part number FMC00315-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview BNC to BNC 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 FMC00315-100CM BNC male to BNC male cable assembly operates to 12.4 GHz. The right angle BNC 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	Typ	Max	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		66	%	
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	3	5	11	GHz
Insertion Loss (Typ.)	0.66	0.83	1.21	1.49	2.17	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector

### Mechanical Specifications

#### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.571 in [14.5 mm]

#### 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



#### Configuration:

- BNC Male Right Angle
- BNC Male Right Angle
- RG223

#### Features:

- Max Frequency 12.4 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)

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
Type	BNC Male	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	100 $\mu$ in minimum	100 $\mu$ in minimum

**Environmental Specifications**
**Temperature**

Operating Range -20 to +80 deg C

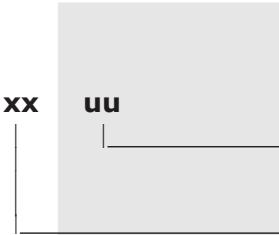
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC00315 - xx uu**


cm = Centimeters

&lt;blank&gt; = Inches

Length

 Example: FMC00315-12 = 12 inches long cable  
 FMC00315-100cm = 100 cm long cable

Low Loss RA BNC Male to RA BNC Male Cable RG-223 Coax in 100 CM from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

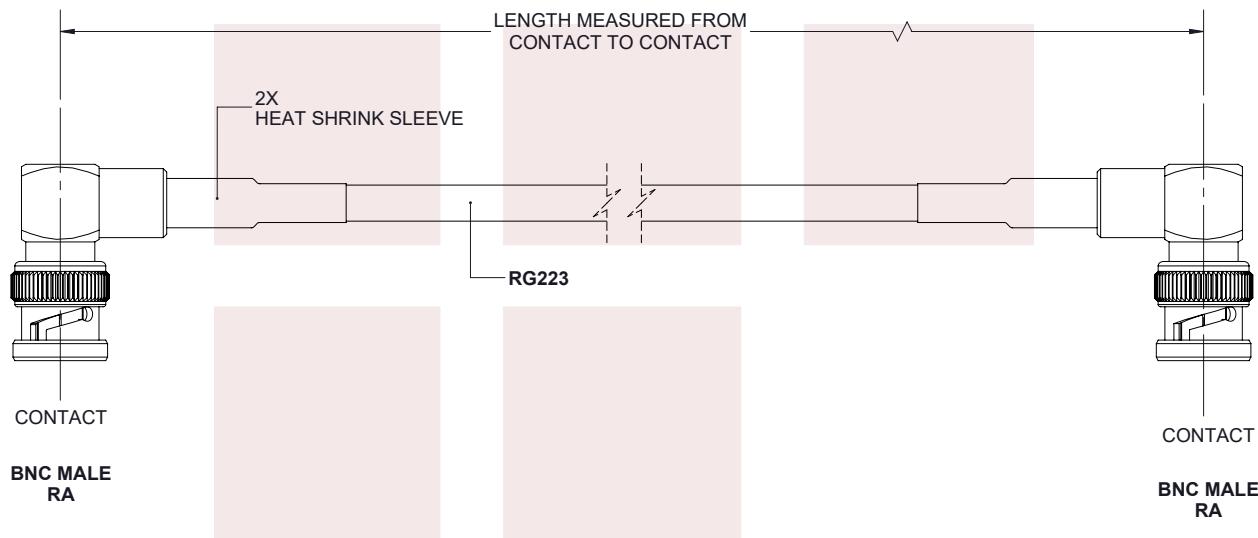
Click the following link to obtain additional part information: [Low Loss RA BNC Male to RA BNC Male Cable RG-223 Coax in 100 CM FMC00315-100CM](https://www.fairviewmicrowave.com/low-loss-ra-bnc-male-ra-bnc-male-cable-rg223-coax-fmc00315-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-loss-ra-bnc-male-ra-bnc-male-cable-rg223-coax-fmc00315-100cm-p.aspx>

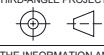
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/24/2020	S.ELLIS



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	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
TITLE  Low Loss RA BNC Male to RA BNC Male Cable RG-223 Coax in 100 CM	.X = ± 2 [5.08] FRACTIONS .XX = ± .02 [.51] ± 1/32 .XXX = ± .005 [.13] ANGLES ± 1°	L ≤ 12 [305] = +1 [25] / -0 60 [1524] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	SHEET 1 OF 1
	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE N/A
	SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG
			ITEM NO. FMC00315
			REV A

T-Rev.D