



Low Loss SMA Male to RA N Male Cable RG-223 Coax

The SMA male to RA type N male cable using RG-223 coax, part number FMC00331, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N 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 FMC00331 SMA male to type N male cable assembly operates to 12.4 GHz. The right angle type N interface on the RG223 cable allows 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		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		6	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.)	0.08	0.13	0.24	0.33	0.54	dB/ft
	0.26	0.43	0.79	1.08	1.77	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector

Mechanical Specifications

Cable Assembly

Diameter 1.29 in [32.77 mm]

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
- N Male Right Angle
- RG223

Features:

- Max Frequency 12.4 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	N Male			
Specification	MIL-STD-348A	MIL-STD-348A			
Impedance	50 Ohms	50 Ohms			
Mating Cycles		500			
Contact Material & Plating	Brass, Gold	Brass, Gold			
Contact Plating Spec.	50 μin minimum	30 μin minimum			
Dielectric Type	PTFE	PTFE			
Body Material & Plating	Brass, Gold	Brass, Nickel			
Body Plating Spec.	3 µin minimum	100 µin minimum			
Coupling Nut Material & Pla	ating Brass, Gold	Brass, Nickel			
Coupling Nut Plating Spec.	3 µin minimum				
Hex Size	5/16 inch				
Torque	3 in-lbs 0.34 Nm	1			

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:

FMC00331 - xx

cm = Centimeters

- Length

Example: FMC00331-12 = 12 inches long cable

FMC00331-100cm = 100 cm long cable





Low Loss SMA Male to RA N Male Cable RG-223 Coax 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 SMA Male to RA N Male Cable RG-223 Coax FMC00331

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/low-loss-sma-male-ra-n-male-cable-rg223-coax-fmc00331-p.aspx

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suitability	of the pa	art describ	oed hereir	n for any	/ particular	purpose,	and Fair	view M	icrowave	does no	ot assume	any liab	ility
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