

FMC00180-24 DATA SHEET

RA SMA Male to N Male Cable RG-223 Coax with Heat Shrink in 24 inch length

The RA SMA male to type N male 24 inch cable using RG223 coax, part number FMC00180-24, 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 FMC00180-24 SMA male to type N male cable assembly operates to 4 GHz. The right angle SMA 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	Max	U	nits
Frequency Range	DC			4	(GHz
VSWR				1.4:1		
Velocity of Propagation		(66			%
Capacitance		30.8 [101.05	5]	pF/ft	[pF/m]
Operating Voltage (AC)				500	V	rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.15	0.22	0.33	0.47	0.99	dB

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*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm] Weight 0.13 lbs [58.97 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
- N Male
- 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	N Male	
Specification	MIL-STD-348A	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material & Plating	Brass, Gold	Brass, Gold	
Contact Plating Spec.	50 µin minimum	ASTM B488	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Gold	Brass, Nickel	
Body Plating Spec.	3 µin minimum	QQ-N-290	
Coupling Nut Material & Pla	ting Brass, Gold	Brass, Nickel	
Coupling Nut Plating Spec.	3 µin minimum	QQ-N-290	
Hex Size	5/16 inch		

Environmental Specifications

Temperature

Operating Range

-40 to +80 deg C

Compliance Certifications (see product page for current document)



Notes:

How to Order

Part Number Configuration:

FMC00180 - xx uu | cm = Centimeters | cblank > = Inches | Length

Example: FMC00180-12 = 12 inches long cable

FMC00180-100cm = 100 cm long cable





RA SMA Male to N Male Cable RG-223 Coax with Heat Shrink in 24 inch length 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 N Male Cable RG-223 Coax with Heat Shrink in 24 inch length FMC00180-24

URL: https://www.fairviewmicrowave.com/ra-sma-male-to-n-male-cable-rg223-coax-in-24-inch-fmc00180-24-p.aspx







