

## SMA Female to N Male Cable Using RG223 Coax



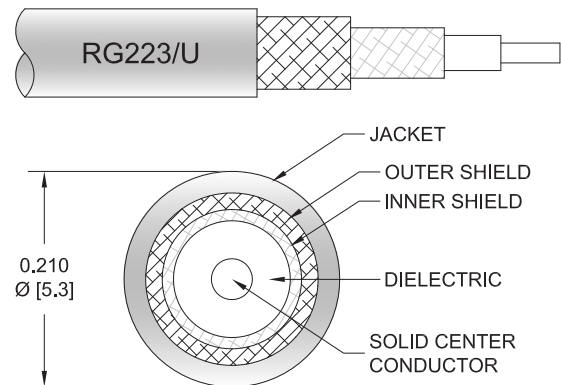
### PE33804

#### Configuration

- Connector 1: SMA Female
- Connector 2: N Male
- Cable Type: RG223
- Coax Flex Type: Flexible

#### Features

- Max Frequency 12.4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE33804 SMA female to type N male cable using RG223 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to type N cable assembly has a female to male gender configuration with 50 ohm flexible RG223 coax. The PE33804 SMA female to type N male cable assembly operates to 12.4 GHz. The double shielding of this Pasternack 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 available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

#### Specifications by Frequency

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### PE33804

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE33804	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.22	0.33	0.609	dB/ft	
			0.3	0.44	0.73	1.1	2	dB/m	
PE33804-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.42	0.54	0.81	dB	0.116
PE33804-24	24 inch	Insertion Loss (Typ.)	0.38	0.47	0.64	0.87	1.42	dB	0.148
PE33804-36	36 inch	Insertion Loss (Typ.)	0.47	0.61	0.86	1.21	2.03	dB	0.179
PE33804-60	60 inch	Insertion Loss (Typ.)	0.65	0.87	1.3	1.87	3.25	dB	0.241
PE33804-72	72 inch	Insertion Loss (Typ.)	0.74	1.01	1.52	2.21	3.86	dB	0.272

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.116 pounds
Additional Weight per Inch:	0.00259 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.116 lbs [52.62 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
Jacket Diameter	0.21 in [5.33 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	N Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Silver
Contact Plating Specification	50μ in. minimum.	
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100μ in. minimum.	

### Environmental Specifications

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

### Plotted and Other Data

Notes:

Values at 25°C, sea level.

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### PE33804

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE33804**

**- xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE33804-12 = 12 inches long cable  
PE33804-100cm = 100 cm long cable

SMA Female to N Male Cable Using RG223 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to N Male Cable Using RG223 Coax PE33804](#)

URL: <https://www.pasternack.com/sma-female-to-n-male-cable-using-rg223-pe33804-p.aspx>

The information contained within 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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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