

N Male to SMA Female Cable Using RG223 Coax

PE3C4103

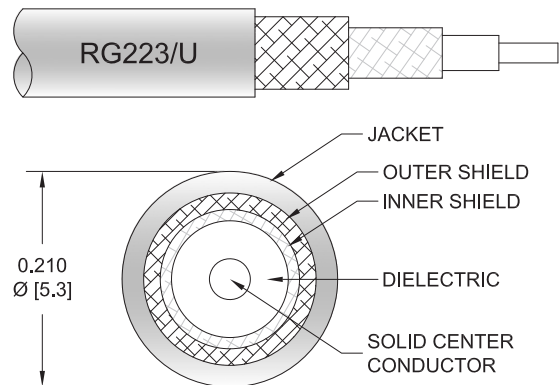


Configuration

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

Features

- Max Frequency 11 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4103 type N male to SMA female 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 type N to SMA cable assembly has a male to female gender configuration with 50 ohm flexible RG223 coax. The PE3C4103 type N male to SMA female cable assembly operates to 11 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		11	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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PE3C4103

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3C4103	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.21	0.33	0.54	dB/ft	
			0.3	0.43	0.69	1.09	1.78	dB/m	
PE3C4103-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.41	0.53	0.74	dB	0.111
PE3C4103-24	24 inch	Insertion Loss (Typ.)	0.38	0.46	0.62	0.86	1.28	dB	0.143
PE3C4103-36	36 inch	Insertion Loss (Typ.)	0.47	0.59	0.83	1.19	1.82	dB	0.174
PE3C4103-60	60 inch	Insertion Loss (Typ.)	0.65	0.85	1.25	1.85	2.9	dB	0.236
PE3C4103-72	72 inch	Insertion Loss (Typ.)	0.74	0.98	1.46	2.18	3.44	dB	0.267

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: 0.111 pounds
 Additional Weight per Inch: 0.00259 pounds

Mechanical Specifications

Cable Assembly

Weight 0.111 lbs [50.35 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 0.209 in [5.31 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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PE3C4103

Connectors

Description	Connector 1	Connector 2
Type	N Male	SMA Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	
Hex Size	18 mm	
Torque	9 in-lbs 1.02 Nm	

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

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PE3C4103

Typical Performance Data

How to Order

Part Number Configuration:

PE3C4103

- XX

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

- Length

- Base Number

Example: PE3C4103-12 = 12 inches long cable
PE3C4103-100cm = 100 cm long cable

N Male to SMA Female 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: [N Male to SMA Female Cable Using RG223 Coax PE3C4103](#)

URL: <https://www.pasternack.com/n-male-to-sma-female-cable-using-rg223-pe3c4103-p.aspx>

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PE3C4103 CAD Drawing
N Male to SMA Female Cable Using RG223 Coax

