



## PE3W18503

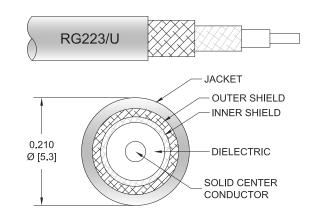
#### Configuration

· Connector 1: SMA Male Right Angle

Connector 2: HN MaleCable Type: RG223Coax Flex Type: Flexible

#### **Features**

- Max Frequency 3 GHz
- · 66% Phase Velocity
- · Double Shielded
- PVC Jacket



## **Applications**

· General Purpose

· Laboratory Use

## **Description**

Pasternack's PE3W18503 SMA male right angle to HN 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 HN cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3W18503 SMA male to HN male cable assembly operates to 3 GHz. The right angle SMA interface on the RG223 cable allows for easier connections in tight spaces. 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		3	GHz	
VSWR			1.4:1		
Velocity of Propagation		66		%	
Capacitance		30.8 [101.05]			
Operating Voltage (AC)			500	Vrms	

#### Specifications by Frequency





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Part Number	Part Number Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibei		Frequency	100	250	500	1000	3000	MHz	
PE3W18503	Custom Lengths	Insertion Loss (Typ.)	0.02	0.06	0.09	0.13	0.248	dB/ft	
FL3W18303	Available	ilisertion Loss (Typ.)	0.07	0.19	0.3	0.44	0.82	dB/m	
PE3W18503-12	12 inch	Insertion Loss (Typ.)	0.32	0.36	0.39	0.44	0.55	dB	0.147
PE3W18503-24	24 inch	Insertion Loss (Typ.)	0.34	0.42	0.48	0.57	0.8	dB	0.179
PE3W18503-36	36 inch	Insertion Loss (Typ.)	0.36	0.47	0.57	0.71	1.05	dB	0.21
PE3W18503-60	60 inch	Insertion Loss (Typ.)	0.4	0.58	0.75	0.97	1.54	dB	0.272
PE3W18503-72	72 inch	Insertion Loss (Typ.)	0.42	0.64	0.84	1.11	1.79	dB	0.303

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 1:0.2 dBLoss due to Connector 2:0.1 dBBase Weight:0.147 poundsAdditional Weight per Inch:0.00259 pounds

## **Mechanical Specifications**

## Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.147 lbs [66.68 g]

## Cable

Cable TypeRG223Impedance50 OhmsInner Conductor TypeSolid

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 Diameter0.209 in [5.31 mm]Repeated Minimum Bend Radius1 in [25.4 mm]





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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Male Right Angle	HN Male		
Specification	MIL-STD-348A	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Configuration	Right Angle	Straight		
Contact Material and Plating	Brass, Gold	Brass, Gold		
Contact Plating Specification	50 μin minimum	30 μin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Nickel	Brass, Nickel		
Body Plating Specification	100 μin minimum	100 μin minimum		
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum		
Hex Size	16-May inch			
Torque	3 in-lbs 0.34 Nm			

## **Environmental Specifications**

Operating Range Temperature

-40 to +80 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:





## PE3W18503

#### **Typical Performance Data**

#### **How to Order**



Example: PE3W18503-12 = 12 inches long cable

PE3W18503-100cm = 100 cm long cable

SMA Male Right Angle to HN 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 Male Right Angle to HN Male Cable Using RG223 Coax PE3W18503

URL: https://www.pasternack.com/sma-male-right-angle-to-hn-male-cable-using-rg223-pe3w18503-p.aspx

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