

SMA Male Right Angle to N Female Cable Using RG223 Coax



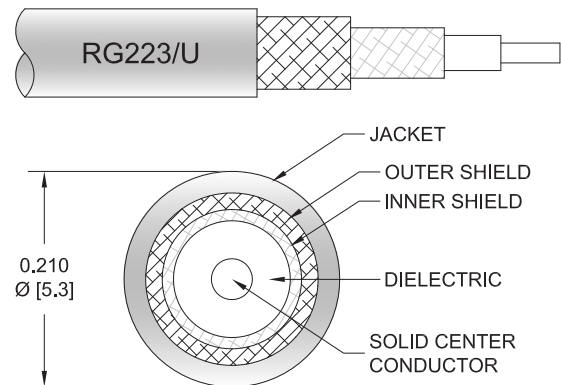
PE3785

Configuration

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

Features

- Max Frequency 6 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3785 SMA male right angle to type N 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 SMA to type N cable assembly has a male to female gender configuration with 50 ohm flexible RG223 coax. The PE3785 SMA male to type N female cable assembly operates to 6 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		6	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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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3785	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.21	0.36	dB/ft	
			0.3	0.43	0.69	1.19	dB/m	
PE3785-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.51	0.66	dB	0.105
PE3785-24	24 inch	Insertion Loss (Typ.)	0.48	0.56	0.72	1.02	dB	0.137
PE3785-36	36 inch	Insertion Loss (Typ.)	0.57	0.69	0.93	1.38	dB	0.168
PE3785-60	60 inch	Insertion Loss (Typ.)	0.75	0.95	1.35	2.1	dB	0.23
PE3785-72	72 inch	Insertion Loss (Typ.)	0.84	1.08	1.56	2.46	dB	0.261

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: 0.2 dB
 Base Weight: 0.105 pounds
 Additional Weight per Inch: 0.00259 pounds

Mechanical Specifications

Cable Assembly

Weight 0.105 lbs [47.63 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 Male Right Angle	N Female
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	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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PE3785

Typical Performance Data

How to Order

Part Number Configuration:

PE3785

- xx

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

Length
Base Number

Example: PE3785-12 = 12 inches long cable
PE3785-100cm = 100 cm long cable

SMA Male Right Angle to N 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: [SMA Male Right Angle to N Female Cable Using RG223 Coax PE3785](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-n-female-cable-using-rg223-pe3785-p.aspx>

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PE3785 CAD Drawing
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