

## SMB Plug to BNC Male Cable Using RG174 Coax



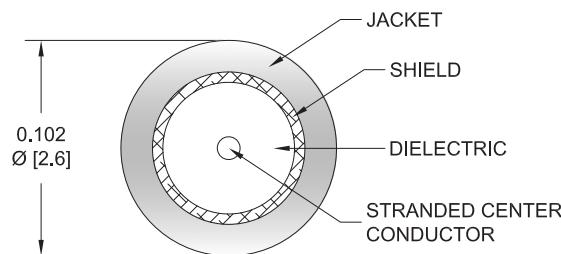
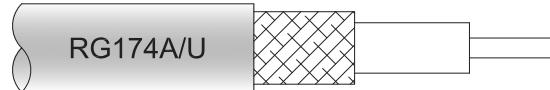
### PE3C3817

#### Configuration

- Connector 1: SMB Plug
- Connector 2: BNC Male
- Cable Type: RG174
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C3817 SMB plug to BNC male cable using RG174 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 SMB to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG174 coax. The PE3C3817 SMB plug to BNC male cable assembly operates to 1 GHz.

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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation	66			%
Capacitance	31.1 [102.03]			pF/ft [pF/m]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE3C3817	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.21	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
PE3C3817-12	12 inch	Insertion Loss (Typ.)	0.39	0.44	0.52	0.62	dB	0.063
PE3C3817-24	24 inch	Insertion Loss (Typ.)	0.47	0.58	0.73	0.94	dB	0.072
PE3C3817-36	36 inch	Insertion Loss (Typ.)	0.56	0.72	0.94	1.26	dB	0.081
PE3C3817-48	48 inch	Insertion Loss (Typ.)	0.64	0.85	1.15	1.58	dB	0.09
PE3C3817-72	72 inch	Insertion Loss (Typ.)	0.81	1.13	1.57	2.22	dB	0.108

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: 0.063 pounds

Additional Weight per Inch: 0.00075 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.063 lbs [28.58 g]

#### Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMB Plug	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	

#### Environmental Specifications

Operating Range Temperature -40 to +80 deg C

#### Compliance Certifications

(see product page for current document)

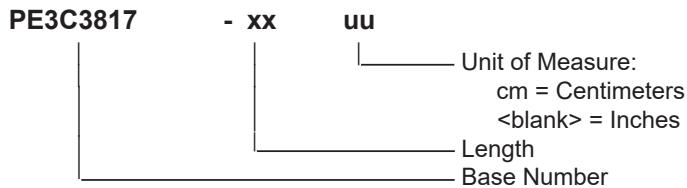
#### Plotted and Other Data

Notes:

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**PE3C3817****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3C3817-12 = 12 inches long cable  
PE3C3817-100cm = 100 cm long cable

SMB Plug to BNC Male Cable Using RG174 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.

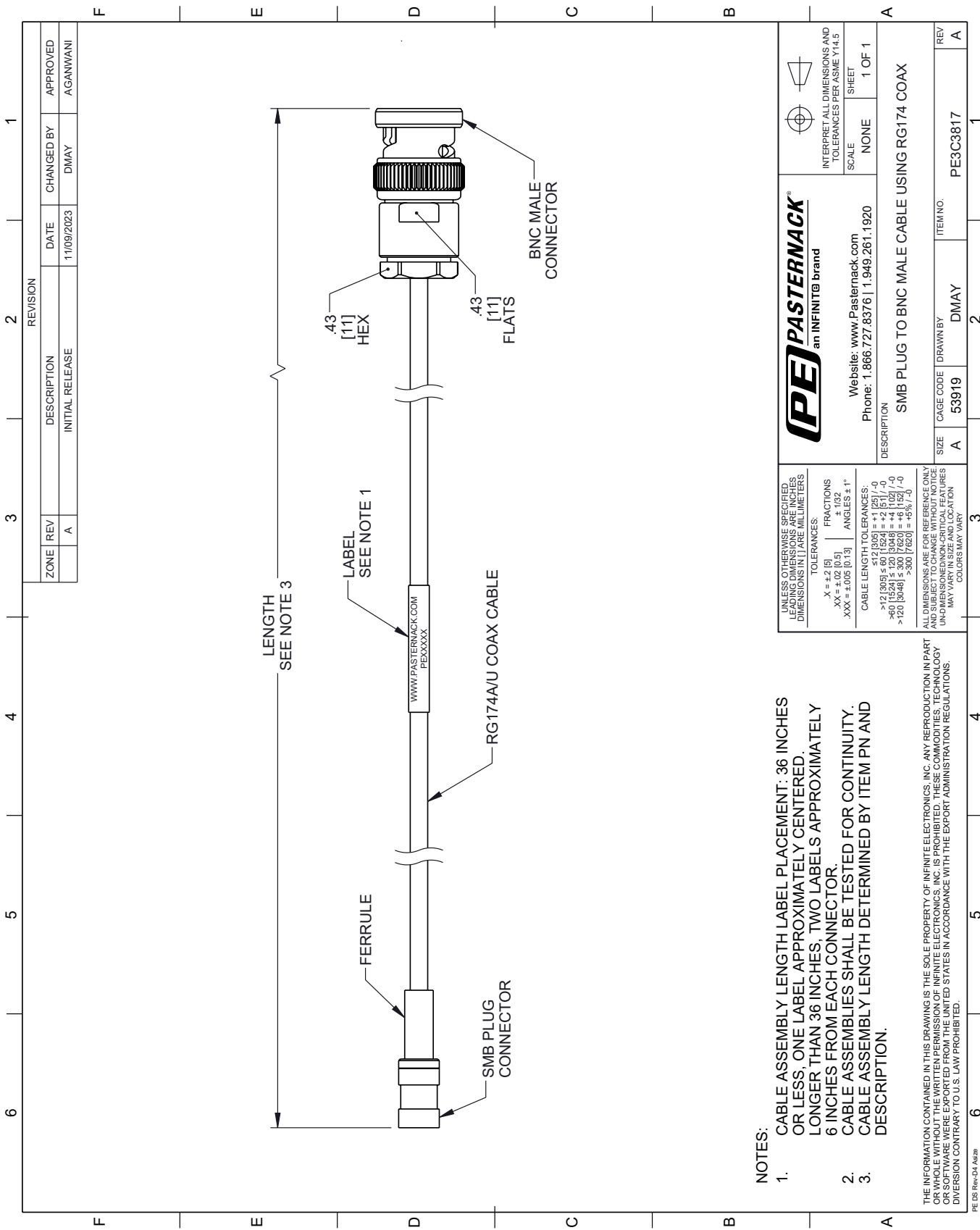
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug to BNC Male Cable Using RG174 Coax PE3C3817](#)

URL: <https://www.pasternack.com/smb-plug-to-bnc-male-cable-using-rg174-pe3c3817-p.aspx>

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# PE3C3817 CAD Drawing

## SMB Plug to BNC Male Cable Using RG174 Coax



NOTES:  
1. C O L 6 C C D  
2. 3.

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ITEM NO.	PE3C3817	REV A
SIZE A	CAGE CODE 53919	DRAWN BY DMAY

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