

## BNC Female to SMA Male Cable 100 cm Using RG174 Coax



### RF Cable Assemblies Technical Data Sheet

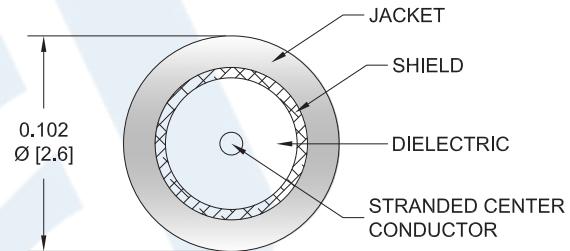
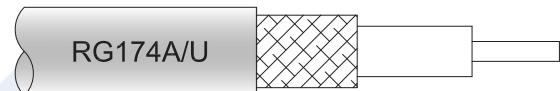
PE3W06305-100CM

#### Configuration

- Connector 1: BNC Female
- Connector 2: SMA Male
- Cable Type: RG174

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W06305-100CM BNC female to SMA male 100 cm 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 BNC to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG174 coax. The PE3W06305-100CM BNC female to SMA 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female to SMA Male Cable 100 cm Using RG174 Coax PE3W06305-100CM](#)



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**PE3W06305-100CM**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.5:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.44	0.48	0.61	0.82	1.25	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per BNC female and SMA male connector.

#### Mechanical Specifications

##### Cable Assembly

Length*	39.37 in [100 cm]
Diameter	0.453 in [11.51 mm]

##### Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
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	BNC Female	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating	Brass, Nickel	Copper, Nickel
Body Material and Plating	Brass, Nickel	Stainless Steel
Body Plating Specification	100 $\mu$ in minimum	
Coupling Nut Material and Plating		Stainless Steel

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +80 deg C

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

#### Plotted and Other Data

Notes:

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## BNC Female to SMA Male Cable 100 cm Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W06305-100CM

#### How to Order

Part Number Configuration:

**PE3W06305**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W06305-12 = 12 inches long cable  
PE3W06305-100cm = 100 cm long cable

BNC Female to SMA Male Cable 100 cm 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.

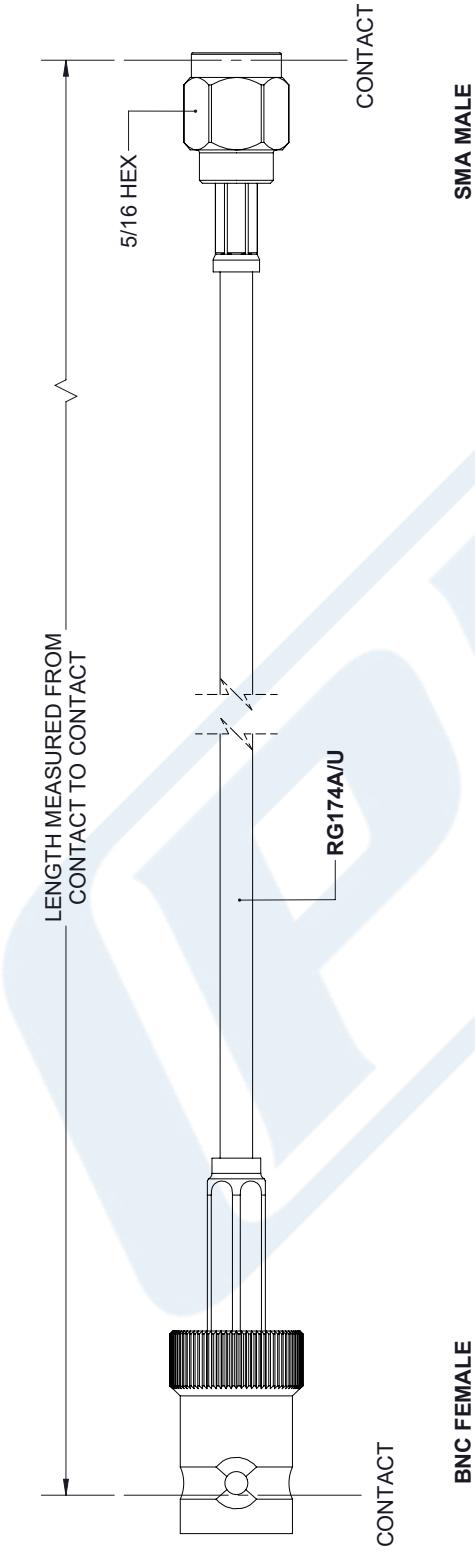
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URL: <https://www.pasternack.com/bnc-female-sma-male-rg174au-cable-assembly-pe3w06305-100cm-p.aspx>

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

**PE3W06305-100CM CAD Drawing**  
BNC Female to SMA Male Cable 100 cm Using RG174 Coax

REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED		
A	INITIAL RELEASE	1/21/2020	S.ELLIS		



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		TOLERANCES:		THIRD-ANGLE PROJECTION	
X = $\pm$ 2	[.08]	FRACTIONS	$\pm$ 1/32		
XX = $\pm$ .02	[.51]	ANGLES $\pm$ 1°			
XXX = $\pm$ .005	[.13]	CABLE LENGTH (L) TOLERANCES:			
L $\leq$ 12 [305] = $\pm$ 1 [25] / -0					
12 [305] < L $\leq$ 60 [1524] = $\pm$ 2 [51] / -0					
60 [1524] < L $\leq$ 120 [3048] = $\pm$ 4 [102] / -0					
120 [3048] < L $\leq$ 300 [7620] = $\pm$ 6 [153] / -0					
300 [7620] < L = $\pm$ 5% L / -0					
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.					
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SIZE A		CAGE CODE 53919		DRAWN BY K. DANG	
ITEM NO. PE3W06305		REV A			

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