



RF Cable Assemblies Technical Data Sheet

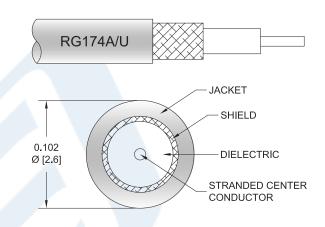
PE3W06305

Configuration

Connector 1: BNC FemaleConnector 2: SMA MaleCable Type: RG174

Features

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



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W06305 BNC female to SMA 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 BNC to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG174 coax. The PE3W06305 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 Using RG174 Coax PE3W06305

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

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

Specifications by Frequency

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Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.071	0.084	0.124	0.189	0.32	dB/ft
	0.23	0.28	0.41	0.62	1.05	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per BNC female and SMA male connector.

Mechanical Specifications

Cable Assembly

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

PΕ Number of Shields

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 SMA Male	
Туре	BNC Female		
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	30 μin 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 μin 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

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How to Order



Example: PE3W06305-12 = 12 inches long cable

PE3W06305-100cm = 100 cm long cable

BNC Female to SMA 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.

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URL: https://www.pasternack.com/bnc-female-sma-male-rg174au-cable-assembly-pe3w06305-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.

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PE3W06305 CAD DrawingBNC Female to SMA Male Cable Using RG174 Coax

