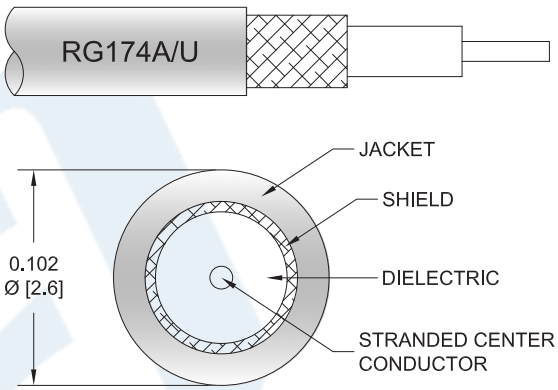
PASTERNACK
THE ENGINEER'S RF SOURCE

SMC Plug Right Angle to BNC Male Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet PE3C1988

Configuration

- Connector 1: SMC Plug Right Angle
- Connector 2: BNC Male
- Cable Type: RG174



Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1988 SMC plug right angle 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 SMC to BNC cable assembly has a plug to male gender configuration with 50 ohm flexible RG174 coax. The PE3C1988 SMC plug to BNC male cable assembly operates to 1 GHz. The right angle SMC interface on the RG174 cable allows for easier connections in tight spaces.

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			1.5:1	
Velocity of Propagation		66		%
Capacitance		31.1 [102.03]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug Right Angle to BNC Male Cable Using RG174 Coax PE3C1988

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

SMC Plug Right Angle to BNC Male Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet PE3C1988

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Max.)	0.08	0.18	0.28	0.32		dB/ft
	0.26	0.59	0.92	1.05		dB/m

Electrical Specification Notes:
Insertion Loss does not include the loss of the conectors. Insertion Loss is estimated as .3dB of connector loss.

Mechanical Specifications

Cable Assembly

Diameter	0.57 in [14.48 mm]
Weight	0.033 lbs [14.97 g]

Cable

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

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMC Plug Right Angle to BNC Male Cable Using RG174 Coax PE3C1988

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

SMC Plug Right Angle to BNC Male Cable Using RG174 Coax

Connectors

Description	Connector 1	Connector 2
Type	SMC Plug Right Angle	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50µ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100µ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100µ in. minimum
Hex Size	1/4 inch	
Torque	3 in-lbs [0.34 Nm]	

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications

Temperature

Operating Range	-40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

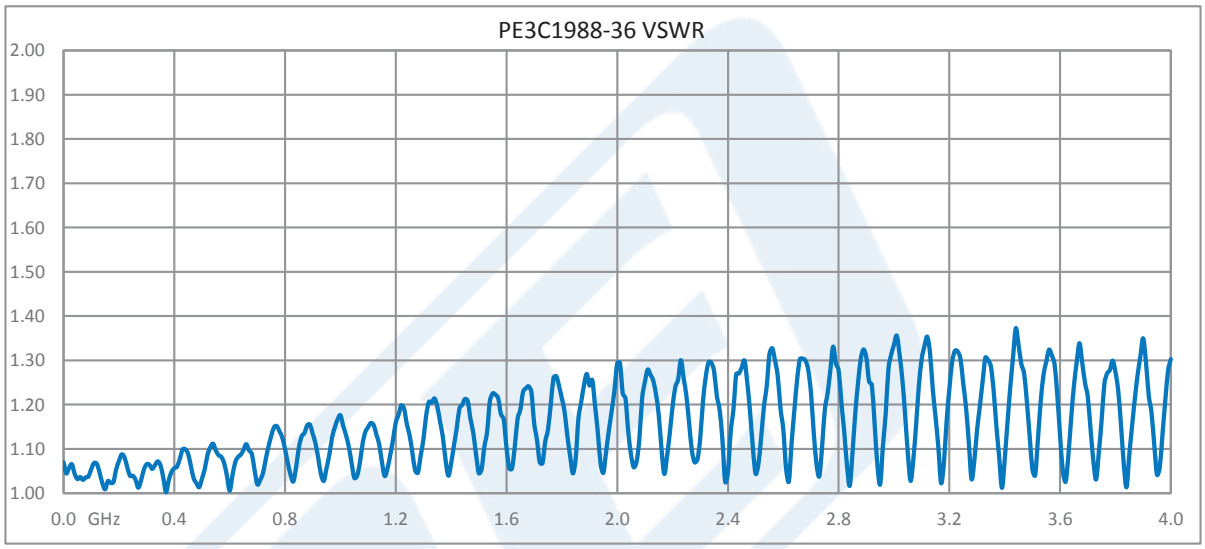
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug Right Angle to BNC Male Cable Using RG174 Coax PE3C1988

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

SMC Plug Right Angle to BNC Male Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet PE3C1988

Typical Performance Data



Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: SMC Plug Right Angle to BNC Male Cable Using RG174 Coax PE3C1988

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

PASTERNACK
THE ENGINEER'S RF SOURCE

SMC Plug Right Angle to BNC Male Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet PE3C1988

How to Order

Part Number Configuration: **PE3C1988 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C1988 — Base Number

Example: PE3C1988-12 = 12 inches long cable
PE3C1988-100cm = 100 cm long cable

SMC Plug Right Angle 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.

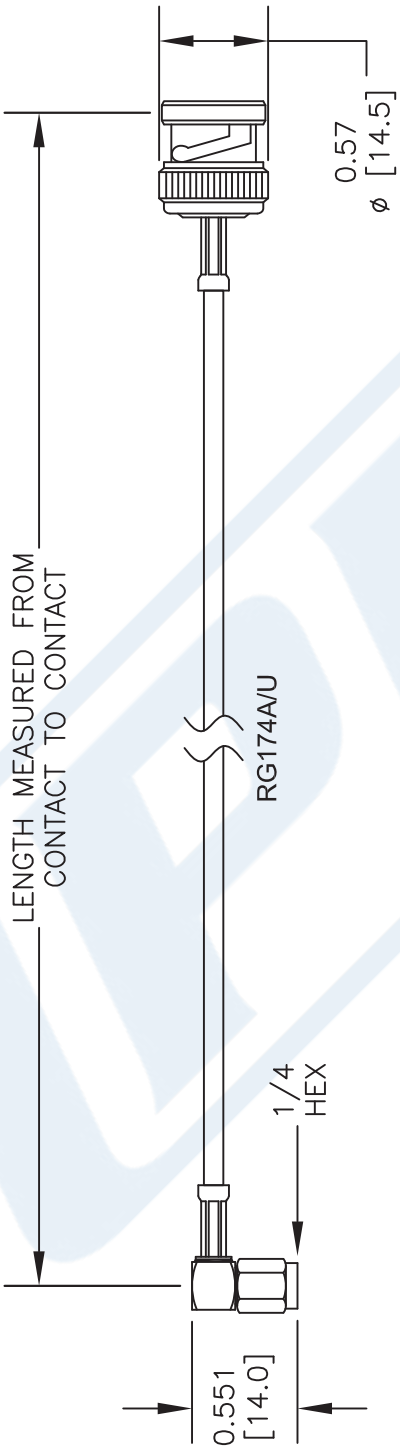
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug Right Angle to BNC Male Cable Using RG174 Coax PE3C1988

URL: https://www.pasternack.com/smc-plug-bnc-male-rg174au-cable-assembly-pe3c1988-p.aspx

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

PE3C1988 CAD Drawing

SMC Plug Right Angle to BNC Male Cable Using RG174 Coax



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE: PE3C1988	CAD FILE: 090816	SCALE: N/A	SIZE: A
FSCM NO. 53919			2233

PASTERNACK
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com