

# BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax

## RF Cable Assemblies Technical Data Sheet

**PE3C5471**

### Configuration

- Connector 1: BNC Male
- Connector 2: SMA Male Reverse Polarity
- Cable Type: RG179

### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C5471 BNC male to reverse polarity SMA male cable using 75 ohm RG179 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 reverse polarity SMA cable assembly has a male to male gender configuration with 75 ohm flexible RG179 coax. The PE3C5471 BNC male to reverse polarity SMA male cable assembly operates to 3 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		3	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		19.4 [63.65]		pF/ft [pF/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Insertion Loss (Typ.)	0.089	0.18	0.293			dB/ft
	0.29	0.59	0.96			dB/m

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax PE3C5471](#)

# BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax

## RF Cable Assemblies Technical Data Sheet

**PE3C5471**

### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Diameter 0.57 in [14.48 mm]

#### Cable

Cable Type RG179  
 Impedance 75 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.1 in [2.54 mm]

Repeated Minimum Bend Radius 0.4 in [10.16 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SMA Male Reverse Polarity
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Gold
Contact Plating Specification	50 µin minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	QQ-N-290
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	QQ-N-290
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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

### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax PE3C5471](#)

## BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C5471**

#### How to Order

Part Number Configuration:

**PE3C5471**

- **xx**

**uu**

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

Example: PE3C5471-12 = 12 inches long cable  
PE3C5471-100cm = 100 cm long cable

BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 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: [BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax PE3C5471](#)

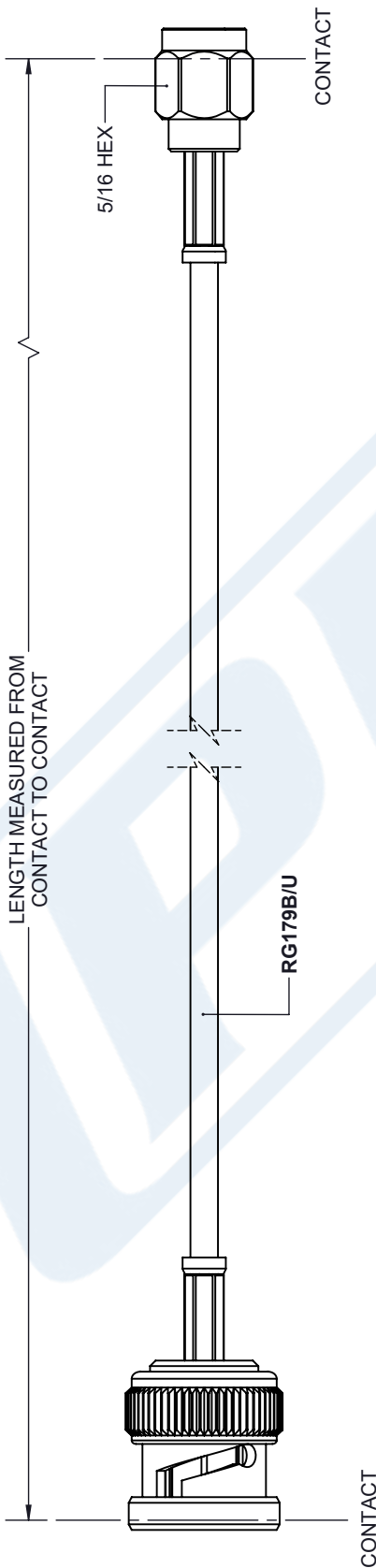
URL: <https://www.pasternack.com/bnc-male-sma-male-rg179bu-cable-assembly-pe3c5471-p.aspx>

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.

# PE3C5471 CAD Drawing

BNC Male to Reverse Polarity SMA Male Cable Using 75 Ohm RG179 Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/12/2021	S. ELLIS



RP  
SMA MALE

BNC MALE

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [ .08]    FRACTIONS ± 1/32                  .XX = ±.02 [ .51]    ANGLES ± 1°                  .XXX = ±.005 [ .13]</p> <p>CABLE LENGTH (L), TOLERANCES:                  L ≤ 12 [305] = +1 [25] / -0                  12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0                  60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0                  120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0                  300 [7620] &lt; L = +5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p>		
	<p>SCALE N/A</p>		
<p><b>PE PASTERNAK</b> an INFINITE brand</p> <p>Pasternack Enterprises, Inc.                  P. O. Box 16759, Irvine, CA 92623.                  Phone: 1.949.261.1920   1.866.727.8376                  Fax: 1.949.261.7451                  Website: www.pasternack.com                  E-mail: sales@pasternack.com</p>			
<p>SIZE A</p>	<p>CAGE CODE 53919</p>	<p>DRAWN BY K.DANG</p>	<p>ITEM NO. PE3C5471</p>
<p>REV A</p>		<p>REV A</p>	

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.