

## SMA Male to TNC Male Right Angle Cable Using RG174 Coax



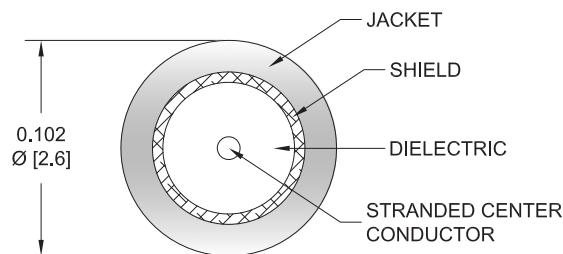
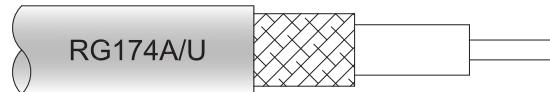
**PE3W02969**

### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male Right Angle
- 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 PE3W02969 SMA male to TNC male right angle 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 SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG174 coax. The PE3W02969 SMA male to TNC male cable assembly operates to 1 GHz. The right angle TNC 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
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	
PE3W02969	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	
PE3W02969-12	12 inch	Insertion Loss (Typ.)	0.39	0.44	0.52	0.62	dB	0.069
PE3W02969-24	24 inch	Insertion Loss (Typ.)	0.47	0.58	0.73	0.94	dB	0.078
PE3W02969-36	36 inch	Insertion Loss (Typ.)	0.56	0.72	0.94	1.26	dB	0.087
PE3W02969-48	48 inch	Insertion Loss (Typ.)	0.64	0.85	1.15	1.58	dB	0.096
PE3W02969-72	72 inch	Insertion Loss (Typ.)	0.81	1.13	1.57	2.22	dB	0.114

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: 0.069 pounds  
 Additional Weight per Inch: 0.00075 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.069 lbs [31.3 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]

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	POM
Body Material and Plating	Brass, Gold	Brass, Nickel
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

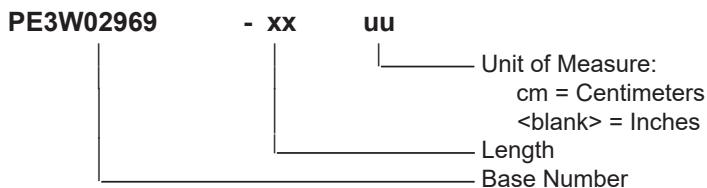
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**PE3W02969****Environmental Specifications****Compliance Certifications** (see product page for current document)**Plotted and Other Data**

Notes:

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

Part Number Configuration:



Example: PE3W02969-12 = 12 inches long cable  
PE3W02969-100cm = 100 cm long cable

SMA Male to TNC Male Right Angle 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: [SMA Male to TNC Male Right Angle Cable Using RG174 Coax PE3W02969](#)

URL: <https://www.pasternack.com/sma-male-to-tnc-male-cable-using-rg174-pe3w02969-p.aspx>

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

# PE3W02969 CAD Drawing

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