



SMA Male to TNC Male Right Angle Cable Using RG174 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

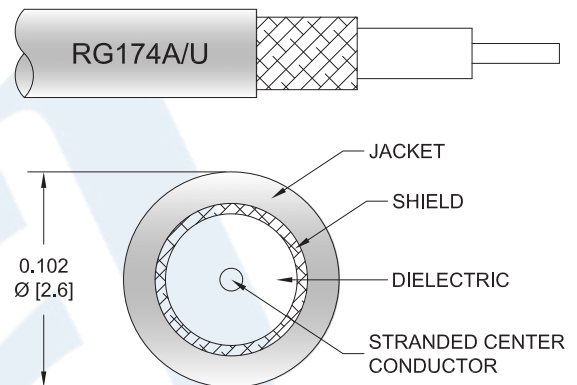
PE3W02969/HS

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/HS 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/HS 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.

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 with HeatShrink PE3W02969/HS](#)



SMA Male to TNC Male Right Angle Cable Using RG174 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W02969/HS

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.084	0.137	0.201	0.32		dB/ft
	0.28	0.45	0.66	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 for the SMA male connector and 0.2 dB for the TNC male connector.

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
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]

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 with HeatShrink PE3W02969/HS](#)



SMA Male to TNC Male Right Angle Cable
Using RG174 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W02969/HS

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Male Right Angle
Impedance	50 Ohms	50 Ohms
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]	

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



SMA Male to TNC Male Right Angle Cable Using RG174 Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W02969/HS

How to Order

Part Number Configuration:

PE3W02969/HS

- **xx**

uu

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

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

SMA Male to TNC Male Right Angle Cable Using RG174 Coax with HeatShrink 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.

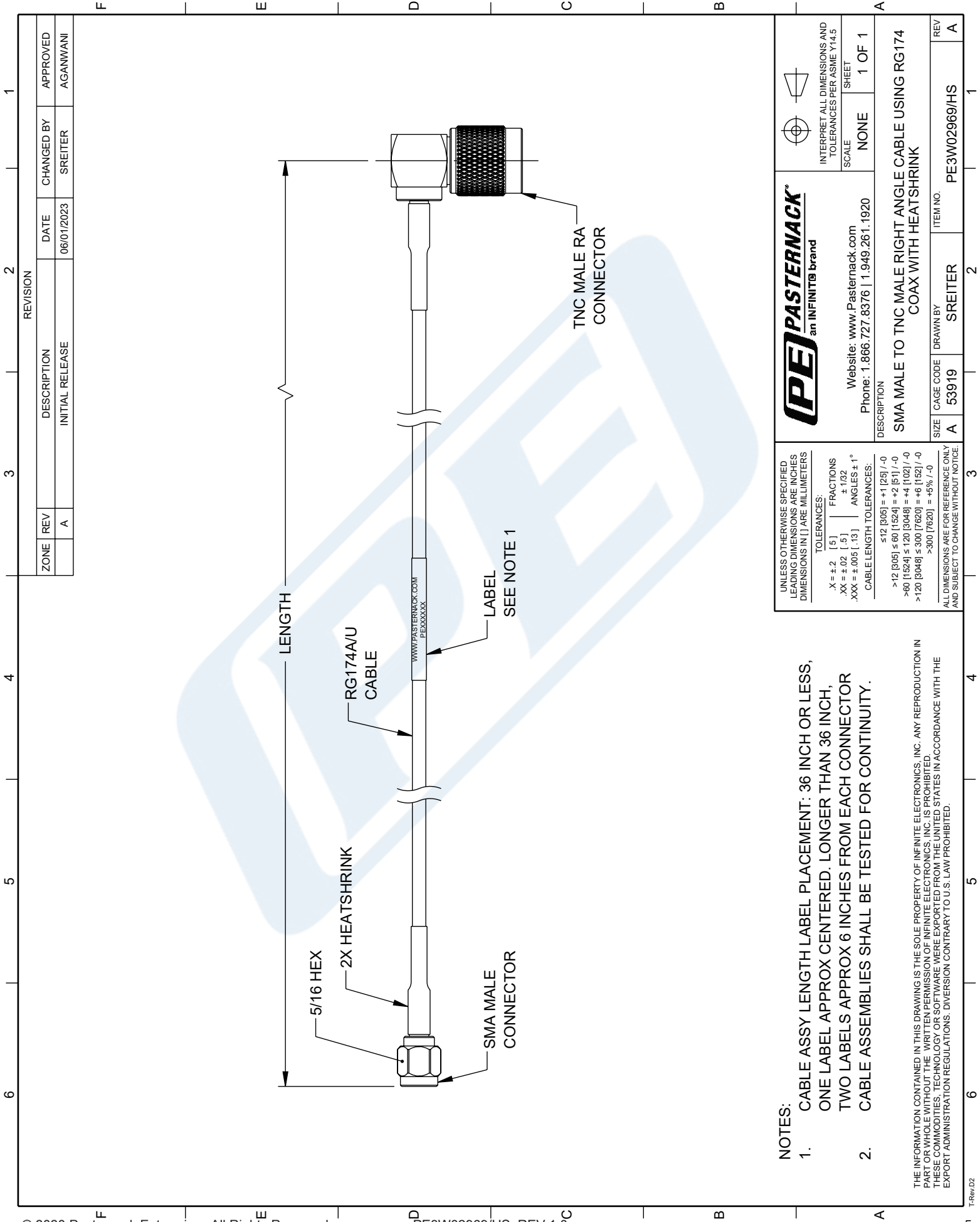
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Right Angle Cable Using RG174 Coax with HeatShrink PE3W02969/HS](#)

URL: <https://www.pasternack.com/sma-male-to-tnc-male-cable-using-rg174-with-heatshrink-pe3w02969-hs-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.

PE3W02969/HS CAD Drawing

SMA Male to TNC Male Right Angle Cable Using RG174 Coax with HeatShrink



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. 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.

 PASTERNAK an INFINITE brand	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SCALE	NONE	SHEET	1 OF 1
	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	DESCRIPTION			
SMA MALE TO TNC MALE RIGHT ANGLE CABLE USING RG174 COAX WITH HEATSHRINK					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	53919	SREITER	PE3W02969/HS	A	