



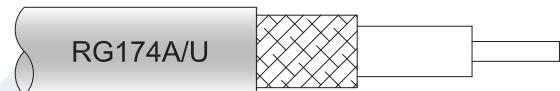
## SMA Male to SMA Male Right Angle Cable Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W01889**

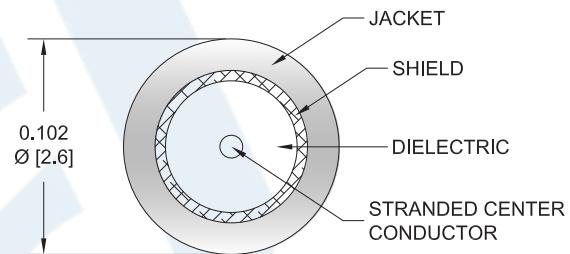
#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: RG174



#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W01889 SMA male to SMA 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG174 coax. The PE3W01889 SMA male to SMA male cable assembly operates to 1 GHz. The right angle SMA 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 SMA Male Right Angle Cable Using RG174 Coax PE3W01889](#)



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

**RF Cable Assemblies Technical Data Sheet**
**PE3W01889**
**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.1 [102.03]		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	0.211	0.32		dB/ft
	0.28	0.45	0.69	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 straight connector and 0.2 dB for the SMA male right angle connector.

**Mechanical Specifications**
**Cable Assembly**

Weight 0.036 lbs [16.33 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]

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

### RF Cable Assemblies Technical Data Sheet

**PE3W01889**

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		50 $\mu$ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification		100 $\mu$ in. minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Nickel
Coupling Nut Plating Specification		100 $\mu$ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	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: [SMA Male to SMA Male Right Angle Cable Using RG174 Coax PE3W01889](#)



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

## RF Cable Assemblies Technical Data Sheet

PE3W01889

## How to Order

Part Number Configuration:

PE3W01889

- xx

uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length  
Base Number

Example: PE3W01889-12 = 12 inches long cable  
PE3W01889-100cm = 100 cm long cable

SMA Male to SMA 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 SMA Male Right Angle Cable Using RG174 Coax PE3W01889](#)

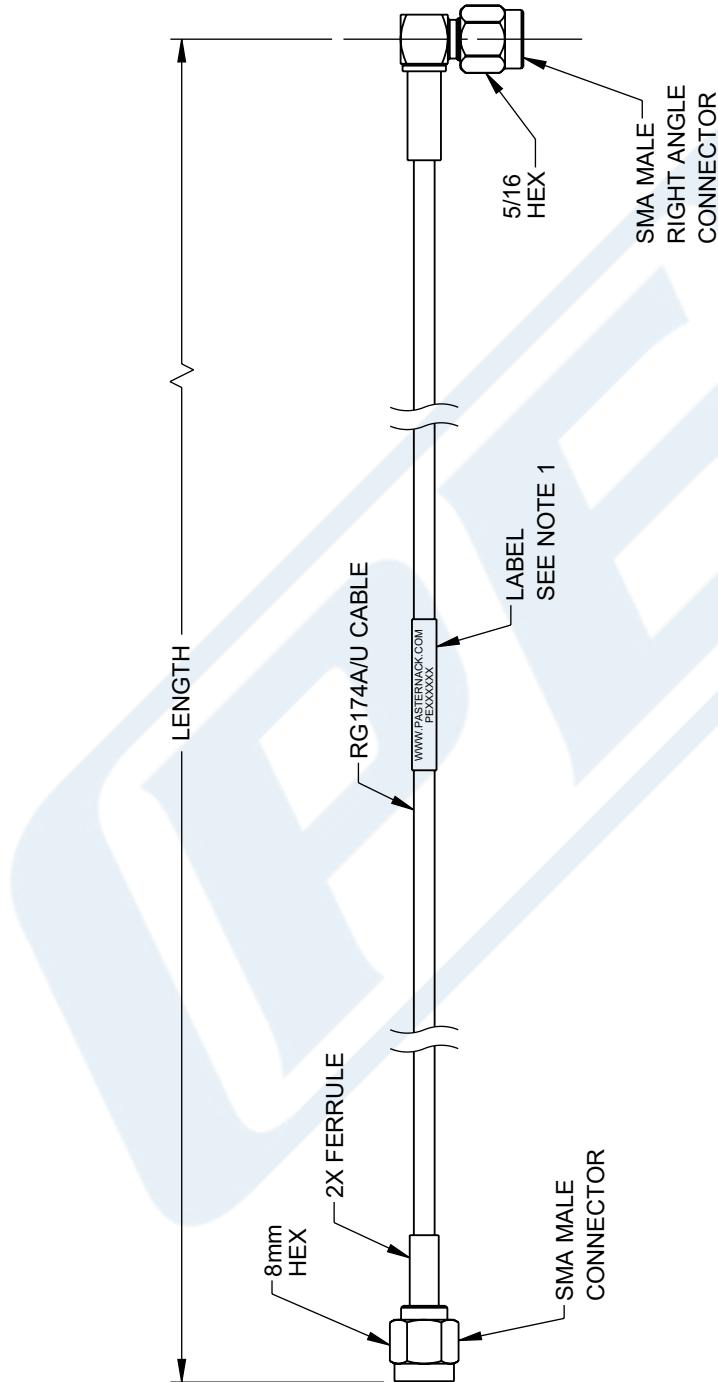
URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg174-pe3w01889-p.aspx>

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.

PE3W01889 CAD Drawing

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

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	04/13/2023	BPUCHASKI	AGANWANI



**NOTES:**

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

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 <b>PASTERNACK®</b> an INFINIT® brand			
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET			
1/32" TUBES / 1" FLANGES / 1" NOSES: _____		SCALE NONE	1 OF 1
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		DESCRIPTION <b>SMA Male to SMA Male Right Angle Cable Using RG174 Coax</b>	
SPECIFIED INCHES MILLIMETERS	CAGE CODE <b>A 5399</b>	DRAWN BY <b>BPUCHASKI</b>	ITEM NO. <b>PE3W01889</b>
% TOLERANCE Y OUT NOTICE	SIZE <b>A</b>	% TOLERANCE Y OUT NOTICE	REV <b>A</b>
[25] / -0 [51] / -0 [102] / -0	[152] / -0 [381] / -0 [1102] / -0	[152] / -0 [381] / -0 [1102] / -0	