

## SMA Female to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax



### RF Cable Assemblies Technical Data Sheet

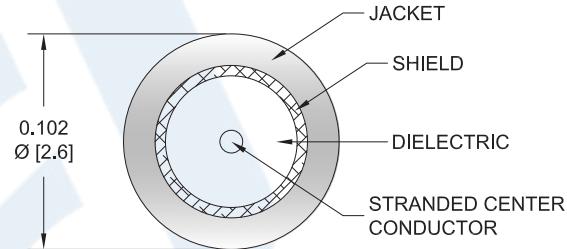
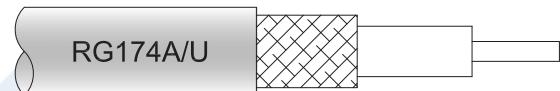
**PE3W03981-150CM**

#### Configuration

- Connector 1: SMA Female
- 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 PE3W03981-150CM SMA female to SMA male right angle 150 cm 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 female to male gender configuration with 50 ohm flexible RG174 coax. The PE3W03981-150CM SMA female 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.

#### 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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax PE3W03981-150CM](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.713	0.905	1.234	1.874		dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length\*  
Diameter

59.05 in [149.99 cm]  
0.315 in [8 mm]

##### Cable

Cable Type  
Impedance  
Inner Conductor Type  
Inner Conductor Material and Plating  
Dielectric Type  
Number of Shields  
Shield Layer 1  
Jacket Material  
Jacket Diameter

RG174  
50 Ohms  
Stranded  
Copper Clad Steel, Silver  
PE  
1  
Tinned Copper Braid  
PVC, Black  
0.11 in [2.79 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	50 $\mu$ in. minimum	50 $\mu$ in. minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating	Brass, Gold	
Outer Conductor Plating Specification	3 $\mu$ in. minimum	
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 $\mu$ in. minimum	100 $\mu$ in. minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 $\mu$ in. minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", 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:

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PE3W03981-150CM

**How to Order**

Part Number Configuration:

**PE3W03981**

- **xx**      **uu**

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

Example: PE3W03981-12 = 12 inches long cable  
PE3W03981-100cm = 100 cm long cable

SMA Female to SMA Male Right Angle Cable 150 cm Length 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.

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URL: <https://www.pasternack.com/sma-female-sma-male-rg174au-cable-assembly-pe3w03981-150cm-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.

# PE3W03981-150CM CAD Drawing

SMA Female to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax

