



SMA Male to SMB Plug Right Angle Cable Using RG174 Coax

RF Cable Assemblies Technical Data Sheet

PE3W03030

Configuration

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

Features

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

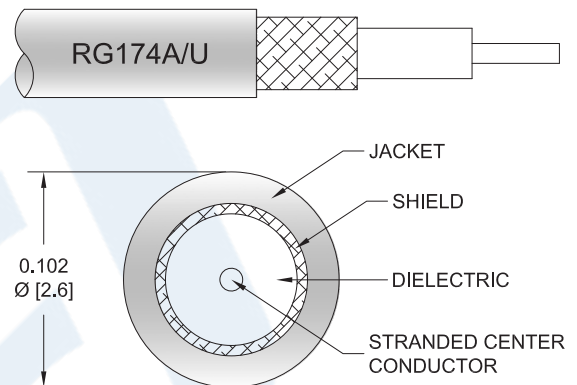
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03030 SMA male to SMB plug 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 SMB cable assembly has a male to plug gender configuration with 50 ohm flexible RG174 coax. The PE3W03030 SMA male to SMB plug cable assembly operates to 1 GHz. The right angle SMB 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 SMB Plug Right Angle Cable Using RG174 Coax PE3W03030](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.5:1	
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 (Max.)	0.08	0.12	0.19	0.32		dB/ft
	0.26	0.39	0.62	1.05		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.3dB of connector loss

Mechanical Specifications

Cable Assembly

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]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMB Plug Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		30 μ in minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Outer Conductor Plating Specification		100 μ in minimum
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification		100 μ in minimum
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:

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PE3W03030

How to Order

Part Number Configuration:

PE3W03030

- **xx**

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

Example: PE3W03030-12 = 12 inches long cable
PE3W03030-100cm = 100 cm long cable

SMA Male to SMB Plug 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 SMB Plug Right Angle Cable Using RG174 Coax PE3W03030](https://www.pasternack.com/sma-male-smb-plug-rg174au-cable-assembly-pe3w03030-p.aspx)

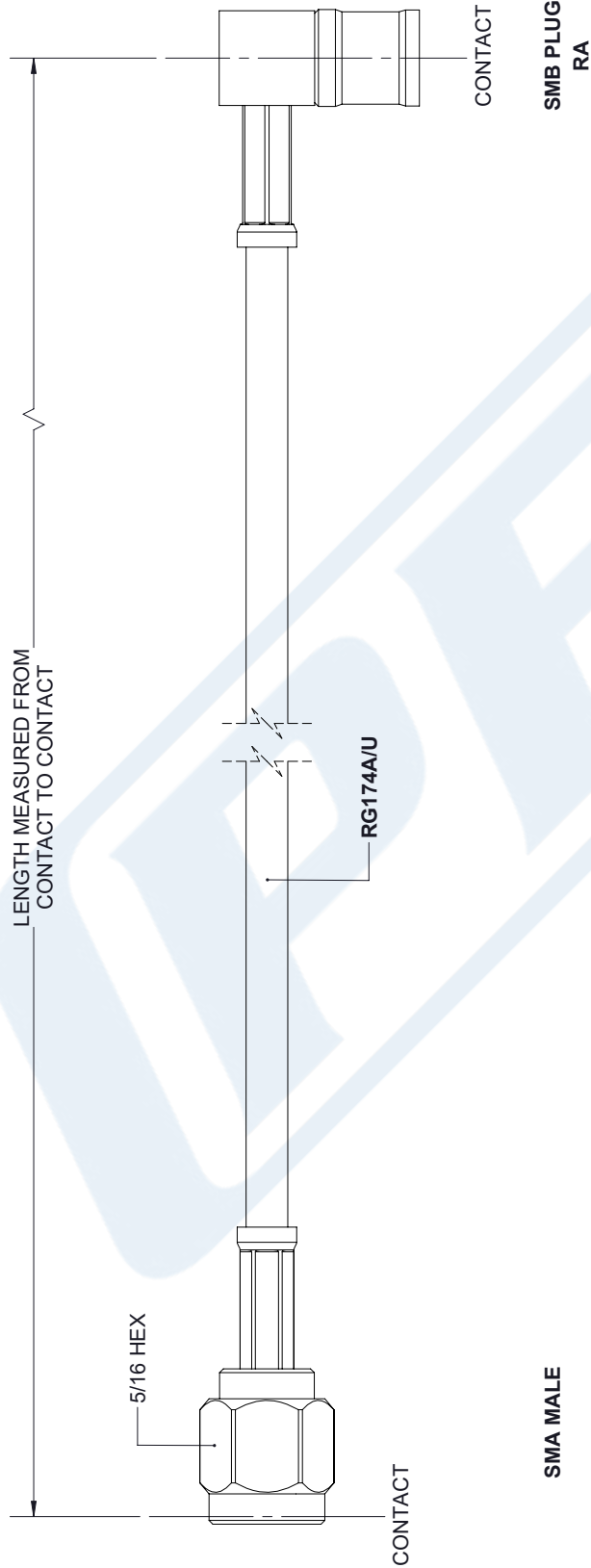
URL: <https://www.pasternack.com/sma-male-smb-plug-rg174au-cable-assembly-pe3w03030-p.aspx>

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PE3W03030 CAD Drawing

SMA Male to SMB Plug Right Angle Cable Using RG174 Coax

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	04/23/19
		APPROVED S. ELLIS



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<p>SIZE A</p> <p>CAGE 53919</p> <p>DRAWN BY K.DANG</p>	<p>PART NUMBER PE3W03030</p>	<p>REV A</p>

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