

SMA Male Right Angle to SMA Female Cable Using RG402 Coax

PE33030

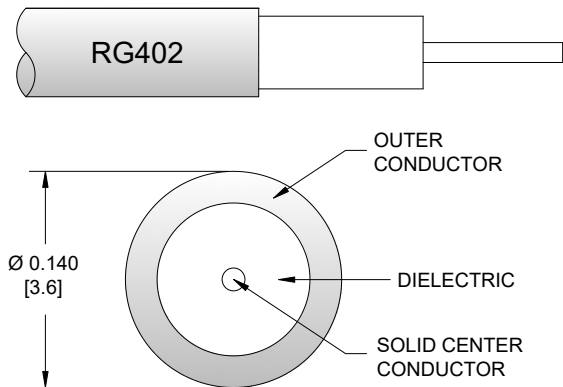


Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Female
- Cable Type: RG402
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE33030 SMA male right angle to SMA female cable using RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to SMA cable assembly has a male to female gender configuration with 50 ohm semi-rigid RG402 coax. The PE33030 SMA male to SMA female cable assembly operates to 12.4 GHz. The right angle SMA interface on the RG402 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		12.4	GHz
Velocity of Propagation		69.5		%

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE33030	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.11	0.17	0.28	0.495	dB/ft	
			0.25	0.37	0.58	0.93	1.63	dB/m	
PE33030-6	6 inch	Insertion Loss (Typ.)	0.34	0.36	0.39	0.45	0.55	dB	0.034
PE33030-12	12 inch	Insertion Loss (Typ.)	0.38	0.42	0.48	0.59	0.8	dB	0.05
PE33030-24	24 inch	Insertion Loss (Typ.)	0.46	0.53	0.65	0.87	1.29	dB	0.083
PE33030-36	36 inch	Insertion Loss (Typ.)	0.53	0.64	0.83	1.15	1.79	dB	0.115
PE33030-60	60 inch	Insertion Loss (Typ.)	0.68	0.86	1.18	1.71	2.78	dB	0.179

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:	0.2 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.05 pounds
Additional Weight per Inch:	0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.05 lbs [22.68 g]

Cable

Cable Type	RG402
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Copper
Jacket Material	Tan
Repeated Minimum Bend Radius	0.25 in [6.35 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Specification	30 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	16-May inch	
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration:

PE33030

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

Length

Base Number

Example: PE33030-12 = 12 inches long cable
PE33030-100cm = 100 cm long cable

SMA Male Right Angle to SMA Female Cable Using RG402 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 Right Angle to SMA Female Cable Using RG402 Coax PE33030](https://www.pasternack.com/sma-male-right-angle-to-sma-female-cable-using-rg402-pe33030-p.aspx)

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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.

PE33030 CAD Drawing
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