

## SMA Male to N Male Right Angle Cable Using RG400 Coax



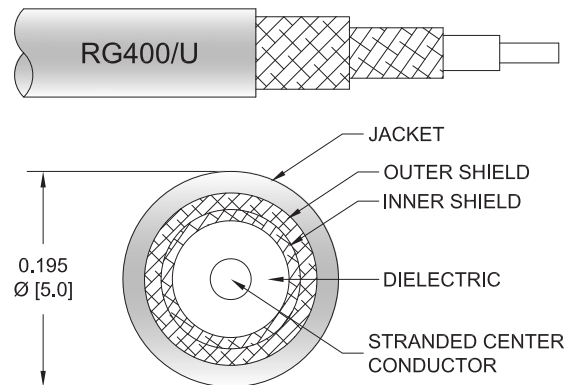
### PE3870

#### Configuration

- Connector 1: SMA Male
- Connector 2: N Male Right Angle
- Cable Type: RG400
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3870 SMA male to type N male right angle cable using RG400 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible RG400 coax. The PE3870 SMA male to type N male cable assembly operates to 1 GHz. The right angle type N interface on the RG400 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE3870	Custom Lengths Available	Insertion Loss (Typ.)	0.011	0.023	0.056	0.1	0.147	dB/ft	
			0.04	0.08	0.19	0.33	0.49	dB/m	
PE3870-6	6 inch	Insertion Loss (Typ.)	0.31	0.32	0.33	0.35	0.38	dB	0.163
PE3870-12	12 inch	Insertion Loss (Typ.)	0.32	0.33	0.36	0.4	0.45	dB	0.184
PE3870-24	24 inch	Insertion Loss (Typ.)	0.33	0.35	0.42	0.5	0.6	dB	0.226
PE3870-36	36 inch	Insertion Loss (Typ.)	0.34	0.37	0.47	0.6	0.75	dB	0.268
PE3870-72	72 inch	Insertion Loss (Typ.)	0.37	0.44	0.64	0.9	1.19	dB	0.394

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: 0.1 dB  
 Loss due to Connector 2: 0.2 dB  
 Base Weight: 0.184 pounds  
 Additional Weight per Inch: 0.0035 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.184 lbs [83.46 g]

#### Cable

Cable Type RG400  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.195 in [4.95 mm]  
 One Time Minimum Bend Radius 1 in [25.4 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	N Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### PE3870

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3870**      **- xx**      **uu**

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

Length

Base Number

Example:    PE3870-12 = 12 inches long cable  
              PE3870-100cm = 100 cm long cable

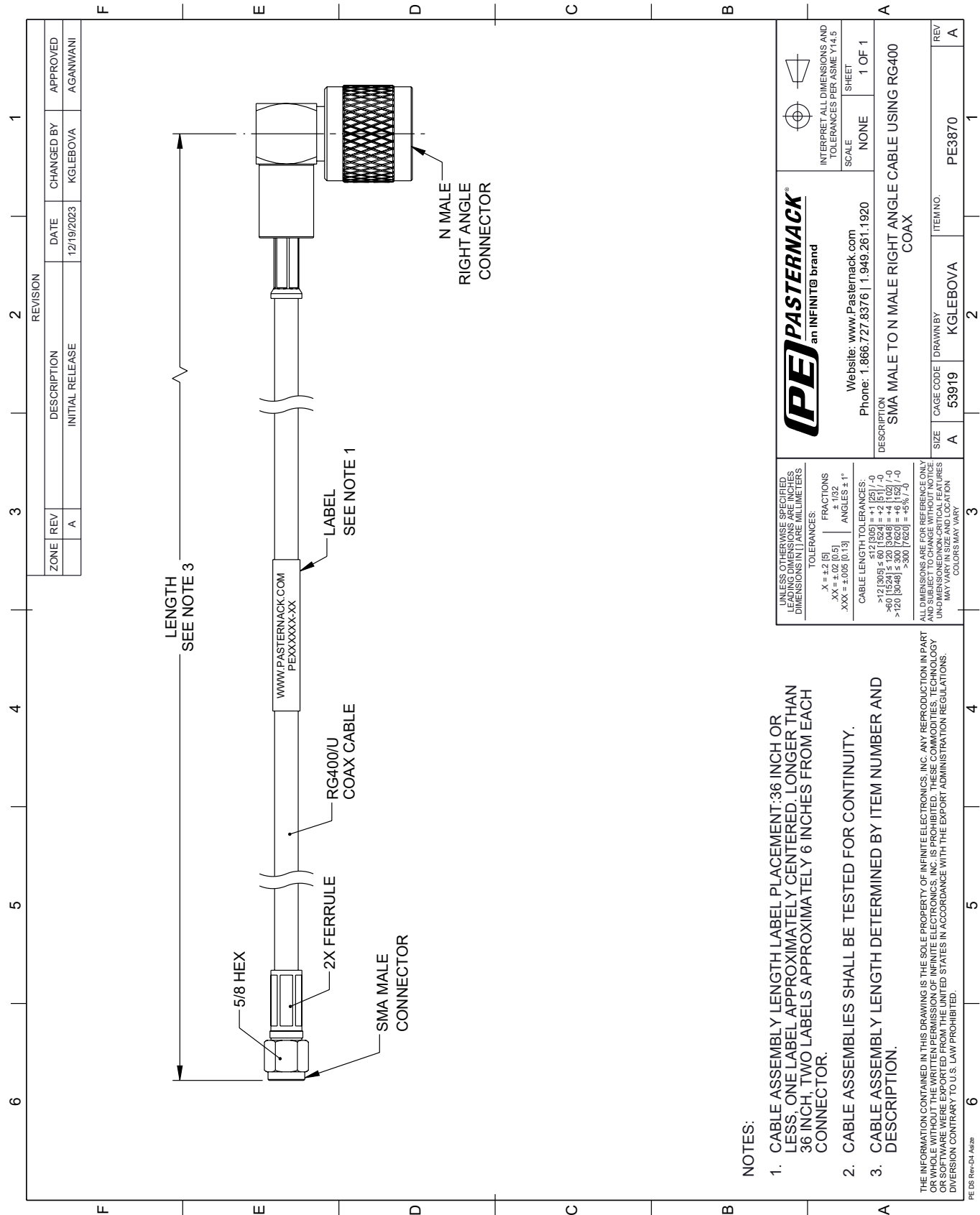
SMA Male to N Male Right Angle Cable Using RG400 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 N Male Right Angle Cable Using RG400 Coax PE3870](https://www.pasternack.com/sma-male-to-n-male-cable-using-rg400-pe3870-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-n-male-cable-using-rg400-pe3870-p.aspx>

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.

PE3870 CAD Drawing  
SMA Male to N Male Right Angle Cable Using RG400 Coax



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS. ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.