

## N Male Right Angle to UHF Male Cable Using RG8 Coax



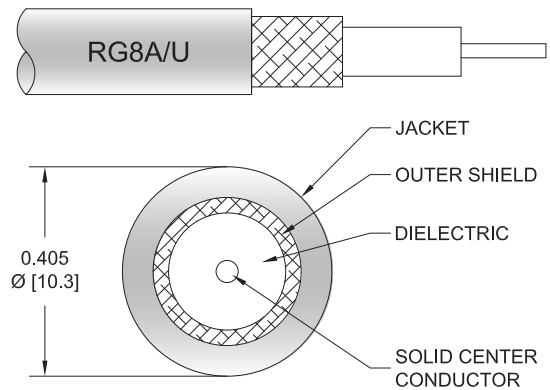
### PE33173

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: UHF Male
- Cable Type: RG8
- Coax Flex Type: Flexible

#### Features

- Max Frequency 300 MHz
- 66% Phase Velocity
- PVC (NC) Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE33173 type N male right angle to UHF male cable using RG8 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 type N to UHF cable assembly has a male to male gender configuration with 50 ohm flexible RG8 coax. The PE33173 type N male to UHF male cable assembly operates to 300 MHz. The right angle type N interface on the RG8 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		300	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

#### Specifications by Frequency

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### PE33173

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE33173	Custom Lengths Available	Insertion Loss (Typ.)	0.013	0.017	0.029	0.033	dB/ft	
			0.05	0.06	0.1	0.11	dB/m	
PE33173-12	12 In	Insertion Loss (Typ.)	0.32	0.32	0.33	0.34	dB	0.291
PE33173-24	24 In	Insertion Loss (Typ.)	0.33	0.34	0.36	0.37	dB	0.392
PE33173-36	36 In	Insertion Loss (Typ.)	0.34	0.36	0.39	0.4	dB	0.492
PE33173-48	48 In	Insertion Loss (Typ.)	0.36	0.37	0.42	0.44	dB	0.592
PE33173-72	72 In	Insertion Loss (Typ.)	0.38	0.41	0.48	0.5	dB	0.792

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:	0.291 pounds
Additional Weight per Inch:	0.00834 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.291 lbs [132 g]

### Cable

Cable Type	RG8
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.405 in [10.29 mm]

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### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	UHF Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Nickel
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PP
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	

### Environmental Specifications

Operating Range Temperature -40 to +80 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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### PE33173

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE33173**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE33173-12 = 12 inches long cable  
PE33173-100cm = 100 cm long cable

N Male Right Angle to UHF Male Cable Using RG8 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: [N Male Right Angle to UHF Male Cable Using RG8 Coax PE33173](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-uhf-male-cable-using-rg8-pe33173-p.aspx>

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PE33173 CAD Drawing
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