

## N Male Right Angle to BNC Male Right Angle Cable Using RG142 Coax with HeatShrink

### PE33253/HS

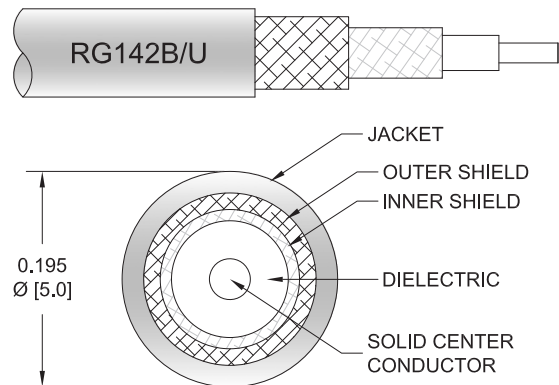


#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: RG142
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE33253/HS type N male right angle to BNC male right angle cable using RG142 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE33253/HS type N male to BNC male cable assembly operates to 1 GHz. The right angle type N and right angle BNC interfaces on the RG142 cable allow 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	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

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### PE33253/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE33253/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.04	0.06	0.09	0.129	dB/ft	
			0.07	0.13	0.2	0.29	0.43	dB/m	
PE33253/HS-12	12 inch	Insertion Loss (Typ.)	0.42	0.44	0.46	0.49	0.53	dB	0.222
PE33253/HS-24	24 inch	Insertion Loss (Typ.)	0.44	0.48	0.52	0.58	0.66	dB	0.264
PE33253/HS-36	36 inch	Insertion Loss (Typ.)	0.46	0.52	0.58	0.67	0.79	dB	0.306
PE33253/HS-48	48 inch	Insertion Loss (Typ.)	0.48	0.56	0.64	0.75	0.92	dB	0.348
PE33253/HS-60	60 inch	Insertion Loss (Typ.)	0.5	0.6	0.7	0.84	1.05	dB	0.39

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:	0.2 dB
Base Weight:	0.222 pounds
Additional Weight per Inch:	0.0035 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.18 lbs [81.65 g]

#### Cable

Cable Type	RG142
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, 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]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	BNC Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 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

#### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

#### Plotted and Other Data

Notes:

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### PE33253/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE33253/HS**

**- xx**

**uu**

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

Length

Base Number

Example: PE33253/HS-12 = 12 inches long cable  
PE33253/HS-100cm = 100 cm long cable

N Male Right Angle to BNC Male Right Angle Cable Using RG142 Coax with HeatShrink 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 BNC Male Right Angle Cable Using RG142 Coax with HeatShrink PE33253/HS](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-bnc-male-cable-using-rg142-with-heatshrink-pe33253-hs-p.aspx>

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