

## N Male Right Angle to N Male Cable Using RG316 Coax with HeatShrink



### PE3C4456/HS

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C4456/HS type N male right angle to type N male cable using RG316 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3C4456/HS type N male to type N male cable assembly operates to 1 GHz. The right angle type N interface on the RG316 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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Operating Voltage (AC)			830	Vrms
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C4456/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.11	0.16	0.24	0.38	dB/ft	
			0.25	0.37	0.53	0.79	1.25	dB/m	
PE3C4456/HS-12	12 inch	Insertion Loss (Typ.)	0.38	0.41	0.46	0.54	0.68	dB	0.179
PE3C4456/HS-24	24 inch	Insertion Loss (Typ.)	0.45	0.52	0.62	0.78	1.06	dB	0.19
PE3C4456/HS-36	36 inch	Insertion Loss (Typ.)	0.53	0.63	0.78	1.02	1.44	dB	0.2
PE3C4456/HS-48	48 inch	Insertion Loss (Typ.)	0.6	0.74	0.94	1.26	1.82	dB	0.21
PE3C4456/HS-72	72 inch	Insertion Loss (Typ.)	0.75	0.96	1.26	1.73	2.58	dB	0.23

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:	0.179 pounds
Additional Weight per Inch:	0.00084 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.169 lbs [76.66 g]

#### Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.102 in [2.59 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	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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### PE3C4456/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C4456/HS - xx uu**

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

Length

Base Number

Example: PE3C4456/HS-12 = 12 inches long cable  
PE3C4456/HS-100cm = 100 cm long cable

N Male Right Angle to N Male Cable Using RG316 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.

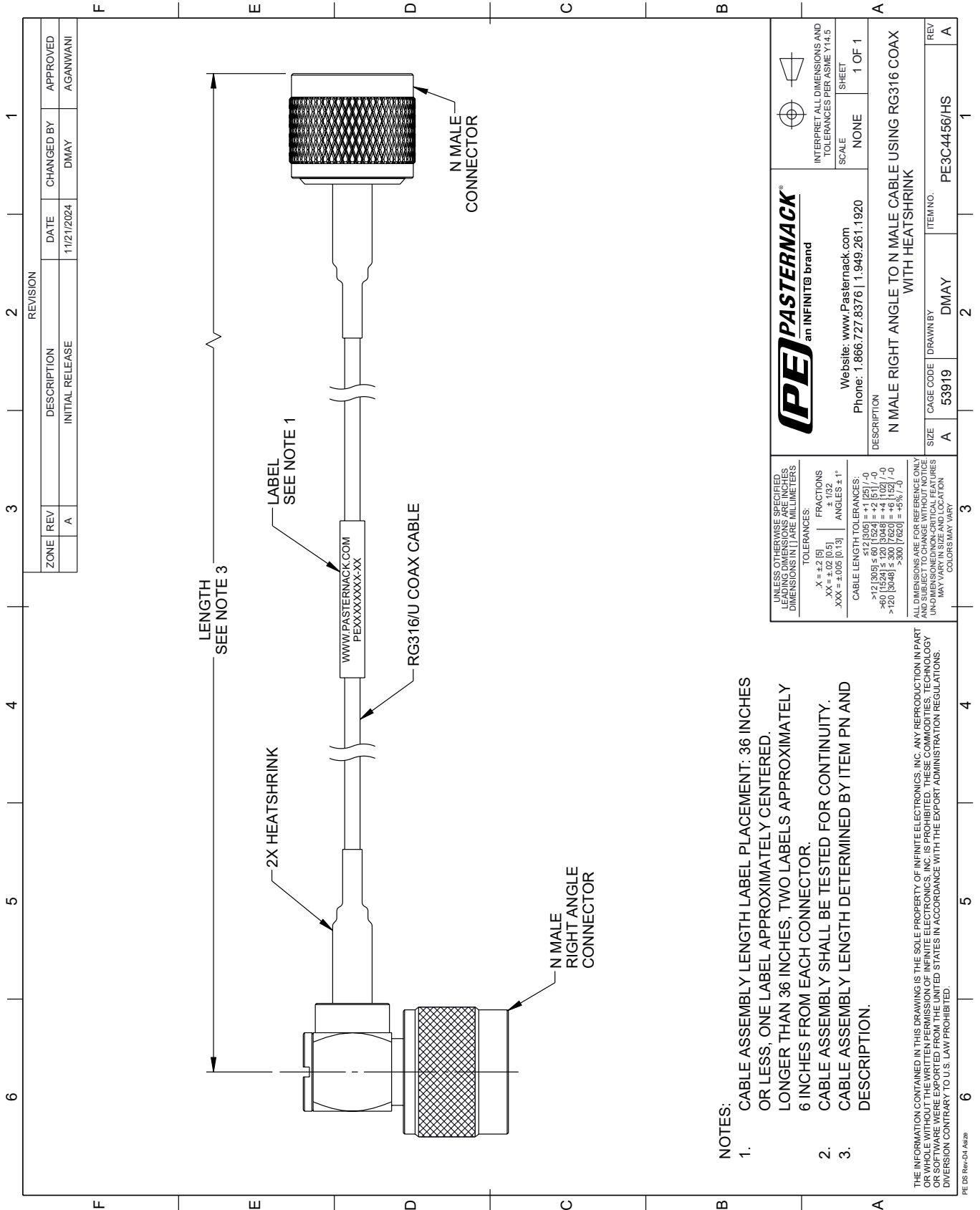
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Cable Using RG316 Coax with HeatShrink PE3C4456/HS](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-n-male-cable-using-rg316-with-heatshrink-pe3c4456-hs-p.aspx>

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# PE3C4456/HS CAD Drawing


N Male Right Angle to N Male Cable Using RG316 Coax with HeatShrink



**NOTES:**

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

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	DESCRIPTION: <b>N MALE RIGHT ANGLE TO N MALE CABLE USING RG316 COAX WITH HEATSHRINK</b>	
SIZE: A CAGE CODE: 53919 DRAWN BY: DMAY	ITEM NO.: PE3C4456/HS	REV: A