

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



PE3C2684/HS

Configuration

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

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2684/HS type N male right angle to SMA 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3C2684/HS type N male to SMA male cable assembly operates to 3 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Operating Voltage (AC)			335	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		100	250	500	1000	
PE3C2684/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.16	0.24	0.38	0.58	dB/ft	
			0.37	0.53	0.79	1.25	1.91	dB/m	
PE3C2684/HS-12	12 inch	Insertion Loss (Typ.)	0.41	0.46	0.54	0.68	0.88	dB	0.129
PE3C2684/HS-24	24 inch	Insertion Loss (Typ.)	0.52	0.62	0.78	1.06	1.46	dB	0.14
PE3C2684/HS-36	36 inch	Insertion Loss (Typ.)	0.63	0.78	1.02	1.44	2.04	dB	0.15
PE3C2684/HS-48	48 inch	Insertion Loss (Typ.)	0.74	0.94	1.26	1.82	2.62	dB	0.16
PE3C2684/HS-72	72 inch	Insertion Loss (Typ.)	0.96	1.26	1.73	2.58	3.78	dB	0.18

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: 0.129 pounds
 Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.119 lbs [53.98 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	SMA 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
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 Nm

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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PE3C2684/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C2684/HS - xx uu

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

Length

Base Number

Example: PE3C2684/HS-12 = 12 inches long cable
PE3C2684/HS-100cm = 100 cm long cable

N Male Right Angle to SMA 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.

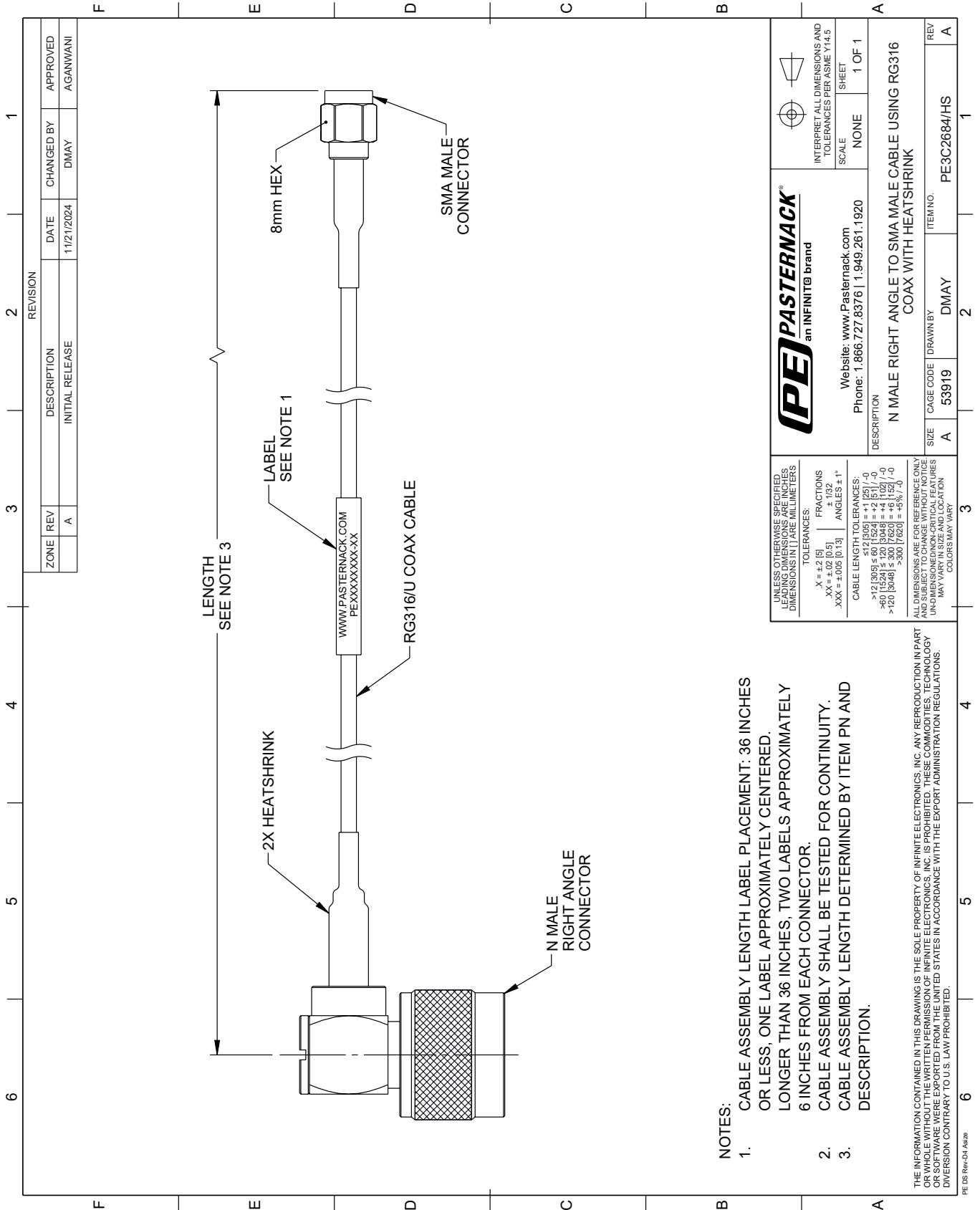
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to SMA Male Cable Using RG316 Coax with HeatShrink PE3C2684/HS](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-sma-male-cable-using-rg316-with-heatshrink-pe3c2684-hs-p.aspx>

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PE3C2684/HS CAD Drawing

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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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<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]</p> <p>FRACTIONS: ± 1/32 ANGLES: ± 1°</p> <p>CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNKNOWN DIMENSIONS/CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.</p>		<p>DESCRIPTION N MALE RIGHT ANGLE TO SMA MALE CABLE USING RG316 COAX WITH HEATSHRINK</p>	<p>ITEM NO. PE3C2684/HS</p>		
<p>ZONE</p>	<p>REV A</p>	<p>DESCRIPTION INITIAL RELEASE</p>	<p>DATE 11/21/2024</p>	<p>CHANGED BY DMAY</p>	<p>APPROVED AGANWANI</p>