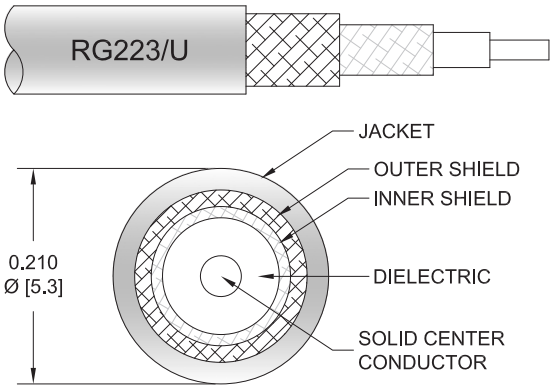
N Male to N Male Cable Using RG223 Coax with HeatShrink



PE3W00417/HS

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: RG223
- Coax Flex Type: Flexible



Features

- Max Frequency 11 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00417/HS type N male to type N male cable using RG223 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 RG223 coax. The PE3W00417/HS type N male to type N male cable assembly operates to 11 GHz. 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		11	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,500	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3W00417/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.134	0.219	0.335	0.541	dB/ft	
			0.3	0.44	0.72	1.1	1.78	dB/m	
PE3W00417/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.42	0.54	0.75	dB	0.167
PE3W00417/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.47	0.64	0.87	1.29	dB	0.199
PE3W00417/HS-36	36 inch	Insertion Loss (Typ.)	0.47	0.61	0.86	1.21	1.83	dB	0.23
PE3W00417/HS-60	60 inch	Insertion Loss (Typ.)	0.65	0.87	1.3	1.88	2.91	dB	0.292
PE3W00417/HS-72	72 inch	Insertion Loss (Typ.)	0.74	1.01	1.52	2.21	3.45	dB	0.323

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:	0.1	dB
Base Weight:	0.167	pounds
Additional Weight per Inch:	0.00259	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.136 lbs [61.69 g]

Cable

Cable Type	RG223
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.209 in [5.31 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin	30 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	18 mm	18 mm
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 Nm

Environmental Specifications

Operating Range Temperature	-40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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PE3W00417/HS

Typical Performance Data

How to Order

Part Number Configuration: **PE3W00417/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W00417/HS — Base Number

Example: PE3W00417/HS-12 = 12 inches long cable
PE3W00417/HS-100cm = 100 cm long cable

N Male to N Male Cable Using RG223 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 to N Male Cable Using RG223 Coax with HeatShrink PE3W00417/HS

URL: https://www.pasternack.com/n-male-to-n-male-cable-using-rg223-with-heatshrink-pe3w00417-hs-p.aspx

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PE3W00417/HS CAD Drawing

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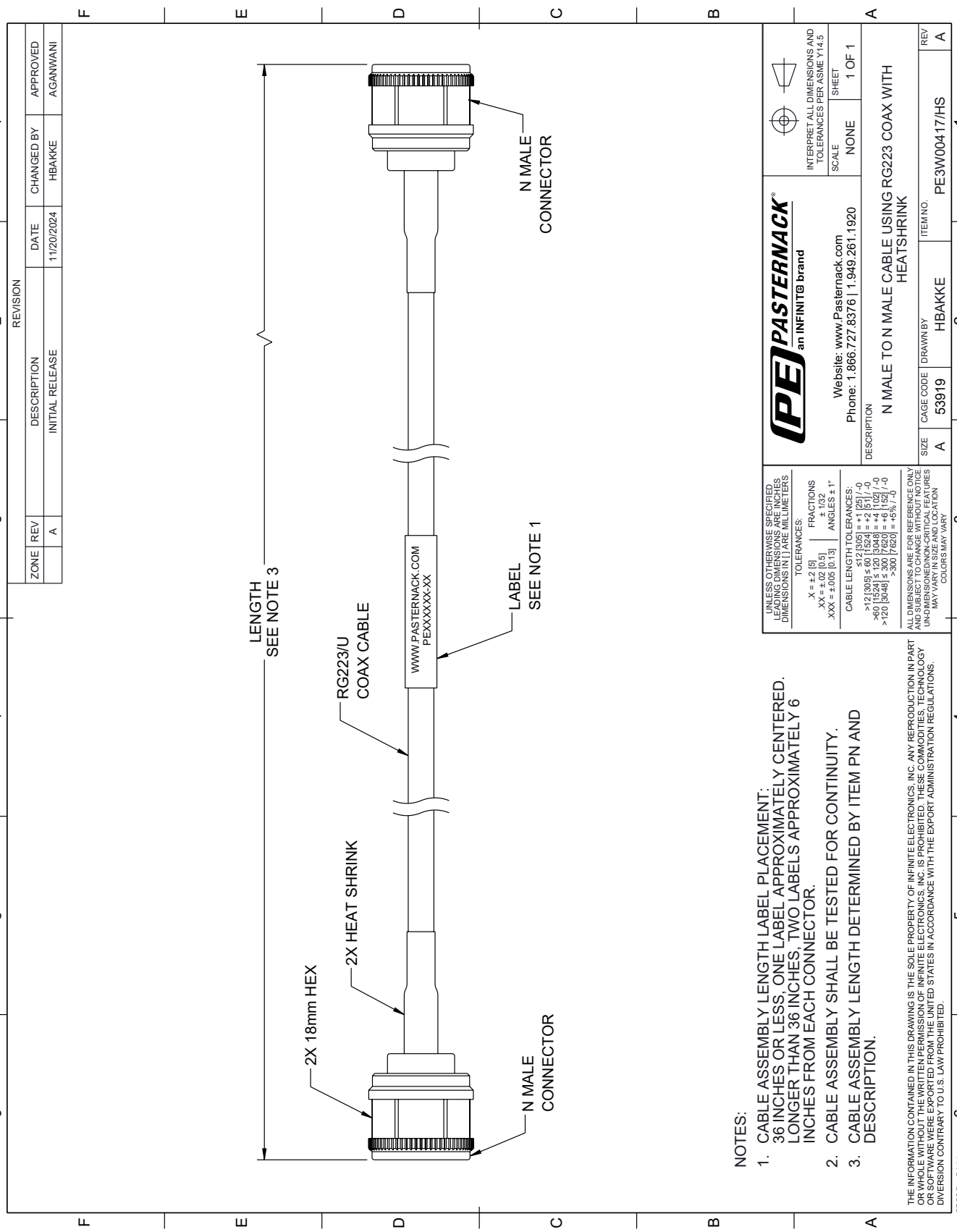

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