

N Male to N Male Cable Using RG223 Coax with HeatShrink



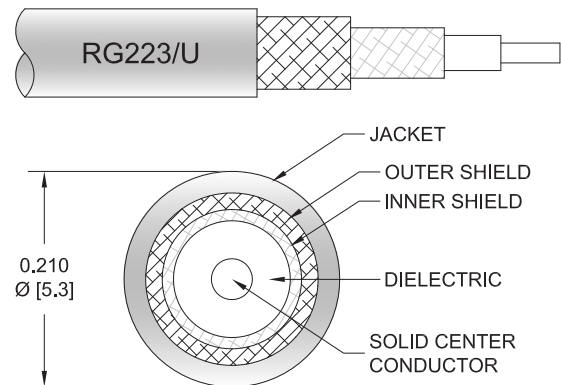
PE3W00417/HS

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

N Male to N Male Cable Using RG223 Coax with HeatShrink



PE3W00417/HS

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]

N Male to N Male Cable Using RG223 Coax with HeatShrink



PE3W00417/HS

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:

N Male to N Male Cable Using RG223 Coax with HeatShrink



PE3W00417/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W00417/HS

- xx

uu

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

Length

Base Number

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

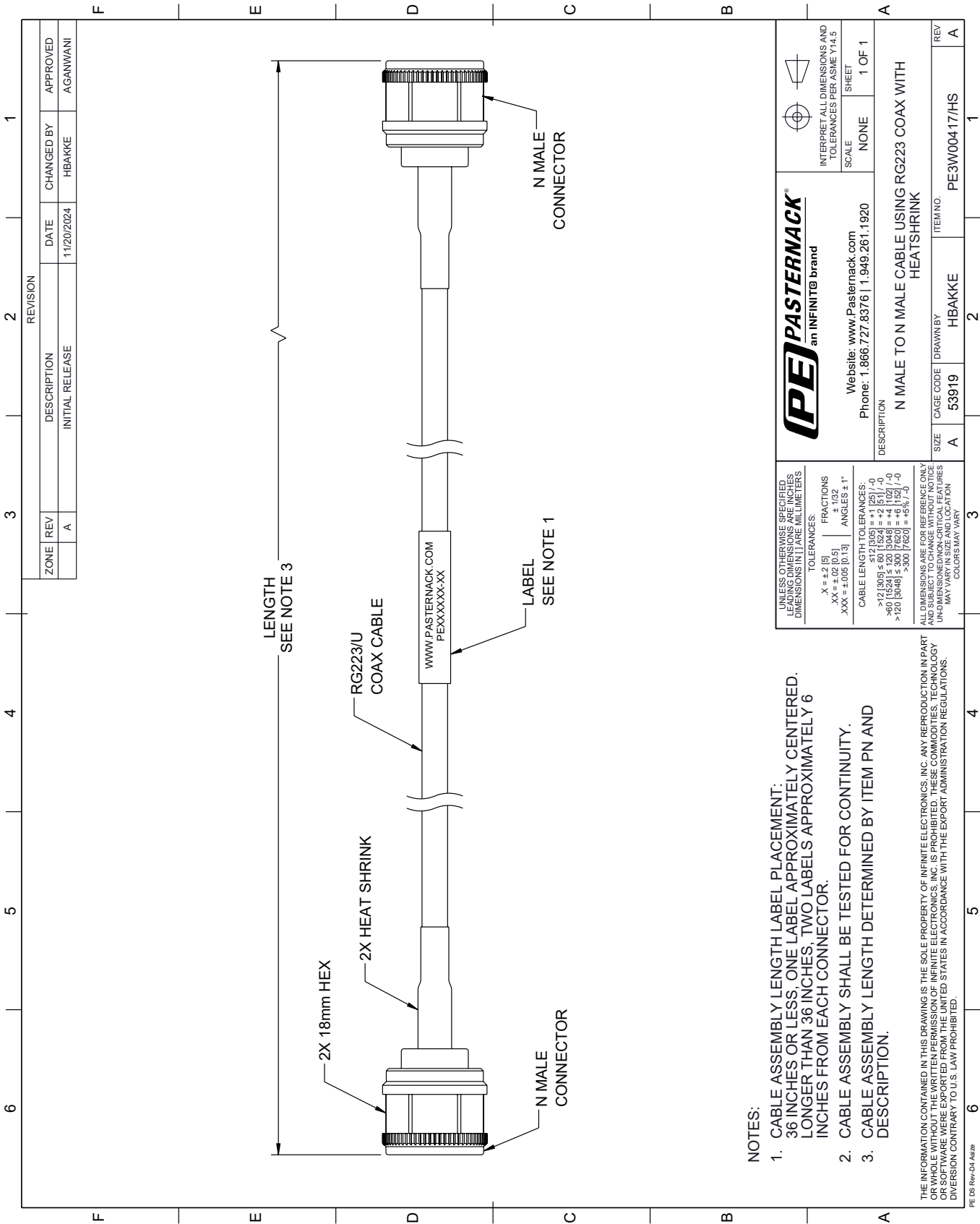
N Male to N Male Cable Using RG223 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W00417/HS CAD Drawing
N Male to N Male Cable Using RG223 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.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE NOT EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVISION CONTRARY TO U.S. LAW PROHIBITED.

PE PASTERNAK an INFINITE brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES:		SCALE	
X = ±.2 [5]		FRACTIONS		NONE	
.XX = ±.02 [0.5]		± 1/32		SHEET	
.XXX = ±.005 [0.13]		ANGLES ± 1°		1 OF 1	
CABLE LENGTH TOLERANCES:		DESCRIPTION		N MALE TO N MALE CABLE USING RG223 COAX WITH HEATSHRINK	
>12 [305] ≤ 60 [1524] = ±.125 [-.0]		SIZE		A	
>60 [1524] ≤ 120 [3048] = ±.102 [-.0]		CAGE CODE		53919	
>120 [3048] ≤ 300 [7620] = ±.063 [-.0]		DRAWN BY		HBAKKE	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		ITEM NO.		PE3W00417/HS	
		REV		A	