



## SMA Male to N Male Cable Using RG214 Coax with HeatShrink

### TECHNICAL DATA SHEET

PE3422/HS

#### Configuration

- Connector 1: SMA Male
- Connector 2: N Male
- Cable Type: RG214
- Coax Flex Type: Flexible

#### Features

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

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3422/HS SMA male to type N male cable using RG214 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 SMA to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG214 coax. The PE3422/HS SMA 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to N Male Cable Using RG214 Coax with HeatShrink PE3422/HS](#)



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#### 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)			500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.045	0.076	0.125	0.206	0.365	dB/ft
	0.15	0.25	0.41	0.68	1.2	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.282 lbs [127.91 g]

##### Cable

Cable Type RG214  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PE (LD)  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.425 in [10.8 mm]

One Time Minimum Bend Radius 2.165 in [54.99 mm]

Repeated Minimum Bend Radius 3.228 in [81.99 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	N Male Threaded
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	

#### Environmental Specifications

##### Temperature

Operating Range -20 to +80 deg C

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

#### Plotted and Other Data

Notes:

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**PE3422/HS**

#### How to Order

Part Number Configuration:

**PE3422/HS - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3422/HS-12 = 12 inches long cable  
PE3422/HS-100cm = 100 cm long cable

SMA Male to N Male Cable Using RG214 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: [SMA Male to N Male Cable Using RG214 Coax with HeatShrink PE3422/HS](#)

URL: <https://www.pasternack.com/sma-male-to-n-male-cable-using-rg214-with-heatshrink-pe3422-hs-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

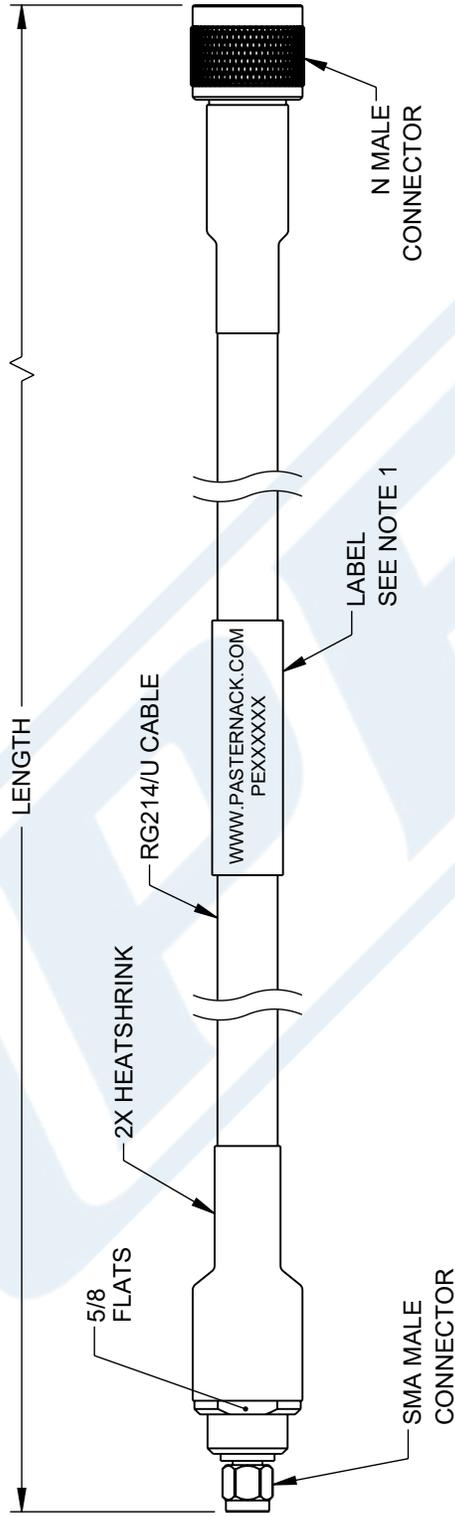
# PE3422/HS CAD Drawing

SMA Male to N Male Cable Using RG214 Coax with HeatShrink

F E D C B A

1 2 3 4 5 6

REVISION		ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
			B	ECO-12895	10/4/2023	DMAY	AGANWANI



	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
	Website: www.Pasternack.com Phone: 1.866.727.8376   1.949.261.1920
DESCRIPTION: SMA Male to N Male Cable Using RG214 Coax with HeatShrink	
SIZE: A CAGE CODE: 53919 DRAWN BY: BPUCHASKI	ITEM NO.: PE3422/HS

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 X = ±.2 [ .5 ]    FRACTIONS ± 1/32  
 XX = ±.02 [ .5 ]    ANGLES ± 1°  
 XXX = ±.005 [ .13 ]

CABLE LENGTH TOLERANCES:  
 ≤12 [305] = +1 [25] / -0  
 >12 [305] ≤60 [1524] = +2 [51] / -0  
 >60 [1524] ≤120 [3048] = +4 [102] / -0  
 >120 [3048] ≤300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

- NOTES:
- 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.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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