

## N Male to N Male Cable Using RG213 Coax with HeatShrink



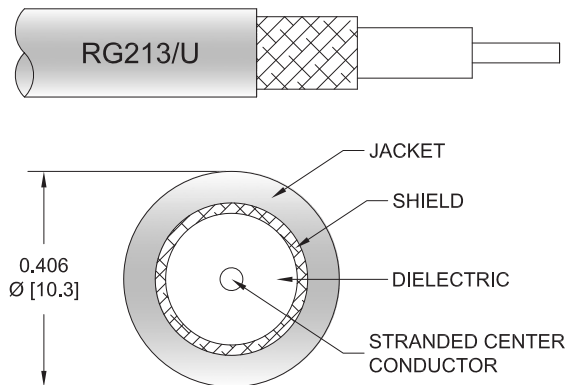
### PE3496/HS

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: RG213
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3496/HS type N male to type N male cable using RG213 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 RG213 coax. The PE3496/HS type N male to type N male cable assembly operates to 1 GHz.

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 |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 1,000   | Vrms         |

#### Specifications by Frequency

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| Part Number  | Length                   | Description           | F1    | F2    | F3    | F4   | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|-------|-------|-------|------|-------|--------------|
|              |                          | Frequency             | 100   | 250   | 400   | 1000 | MHz   |              |
| PE3496/HS    | Custom Lengths Available | Insertion Loss (Typ.) | 0.021 | 0.034 | 0.048 | 0.08 | dB/ft |              |
|              |                          |                       | 0.07  | 0.12  | 0.16  | 0.27 | dB/m  |              |
| PE3496/HS-24 | 24 inch                  | Insertion Loss (Typ.) | 0.25  | 0.27  | 0.3   | 0.36 | dB    | 0.353        |
| PE3496/HS-36 | 36 inch                  | Insertion Loss (Typ.) | 0.27  | 0.31  | 0.35  | 0.44 | dB    | 0.454        |
| PE3496/HS-48 | 48 inch                  | Insertion Loss (Typ.) | 0.29  | 0.34  | 0.4   | 0.52 | dB    | 0.555        |
| PE3496/HS-60 | 60 inch                  | Insertion Loss (Typ.) | 0.31  | 0.37  | 0.44  | 0.6  | dB    | 0.656        |
| PE3496/HS-72 | 72 inch                  | Insertion Loss (Typ.) | 0.33  | 0.41  | 0.49  | 0.68 | dB    | 0.757        |

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: 0.251 pounds  
 Additional Weight per Inch: 0.00842 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.15 lbs [68.04 g]

#### Cable

Cable Type RG213  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PE  
 Number of Shields 1  
 Shield Layer 1 Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.405 in [10.29 mm]  
 Repeated Minimum Bend Radius 1.6 in [40.64 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 minimum  | 30 µin minimum  |
| Dielectric Type                    | PTFE            | PTFE            |
| Body Material and Plating          | Brass, Nickel   | Brass, Nickel   |
| Body Plating Specification         | 100 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating  | Brass, Nickel   | Brass, Nickel   |
| Coupling Nut Plating Specification | 100 µin minimum | 100 µin minimum |

Environmental Specifications

Operating Range Temperature -25 to +70 deg C

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

Plotted and Other Data

Notes:



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### PE3496/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3496/HS - xx uu**

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

Length

Base Number

Example: PE3496/HS-12 = 12 inches long cable  
PE3496/HS-100cm = 100 cm long cable

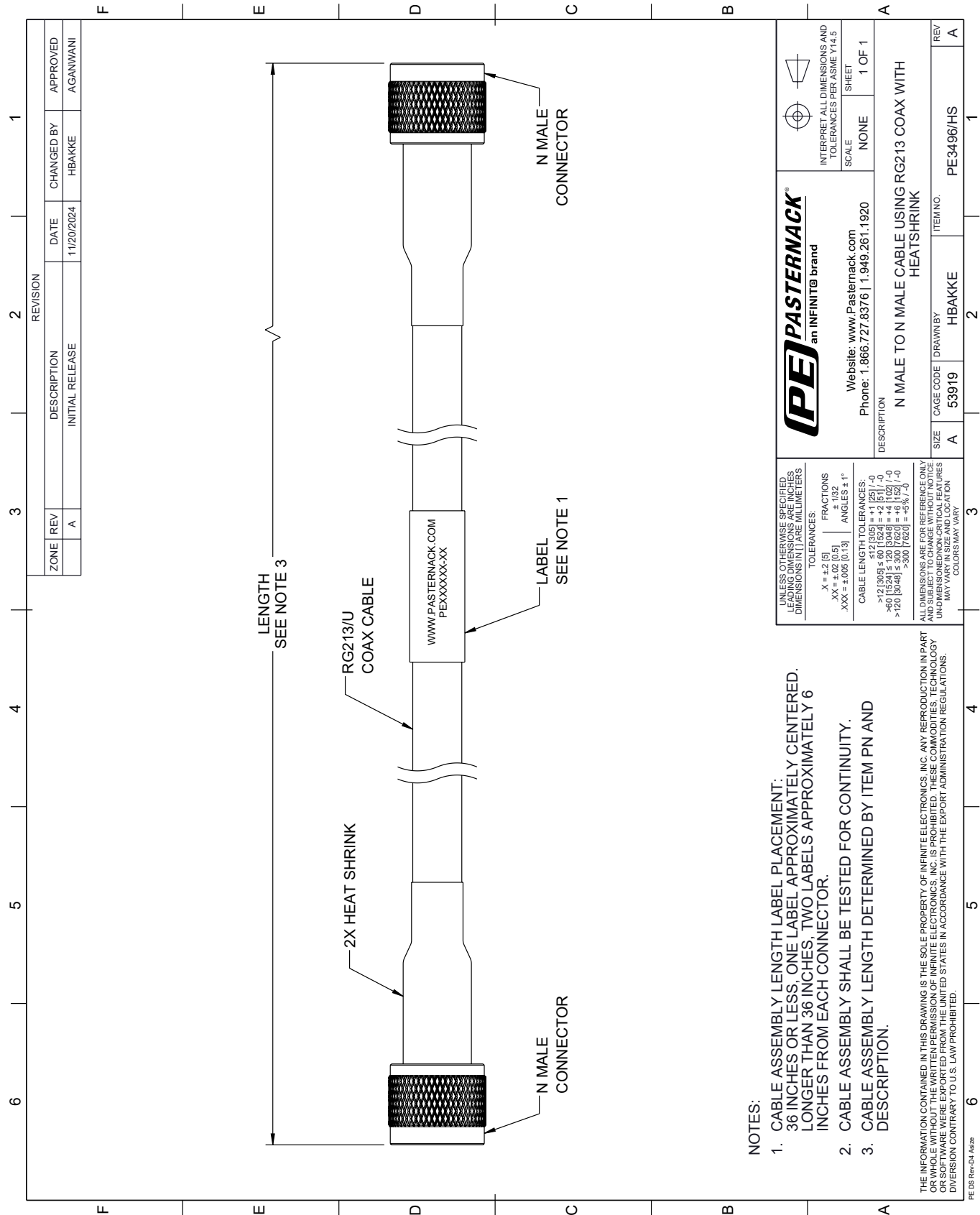
N Male to N Male Cable Using RG213 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 RG213 Coax with HeatShrink PE3496/HS](#)

URL: <https://www.pasternack.com/n-male-to-n-male-cable-using-rg213-with-heatshrink-pe3496-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.

PE3496/HS CAD Drawing
N Male to N Male Cable Using RG213 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.

|                                                                                                                                                                                            |  |                                            |  |                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED,<br>LEADING DIMENSIONS ARE INCHES.<br>DIMENSIONS IN [ ] ARE MILLIMETERS.                                                                                        |  | <b>PE PASTERNAK®</b><br>an INFINITE® brand |  | <br>INTERPRET ALL DIMENSIONS AND<br>TOLERANCES PER ASME Y14.5 |  |
| TOLERANCES:<br>X = ±.2 [5]<br>.XX = ±.02 [0.5]<br>XXX = ±.005 [0.13]                                                                                                                       |  | FRACTIONS<br>± 1/32<br>ANGLES ± 1°         |  | SCALE<br>NONE                                                                                                                                    |  |
| CABLE LENGTH TOLERANCES:<br>≤12 [305] = +.1 [25] / -0<br>>12 [305] ≤ 120 [3048] = +.1 [25] / -0<br>>60 [1524] ≤ 300 [7620] = +.1 [25] / -0<br>>120 [3048] ≤ 300 [7620] = +.1 [25] / -0<br> |  |                                            |  |                                                                                                                                                  |  |