



## BNC Male to N Male Cable Using RG213 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W09009**

#### Configuration

- Connector 1: BNC Male
- Connector 2: N Male
- Cable Type: RG213

#### Features

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

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W09009 BNC 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 BNC to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG213 coax. The PE3W09009 BNC 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to N Male Cable Using RG213 Coax PE3W09009](#)



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#### 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)			500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.021	0.034	0.053	0.08		dB/ft
	0.07	0.11	0.17	0.26		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 0.314 lbs [142.43 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	BNC Male	N Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		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**

**Temperature**

Operating Range

-25 to +70 deg C

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

**Plotted and Other Data**

Notes:

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**PE3W09009**

#### How to Order

Part Number Configuration:

**PE3W09009**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W09009-12 = 12 inches long cable  
PE3W09009-100cm = 100 cm long cable

BNC Male to N Male Cable Using RG213 Coax 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.

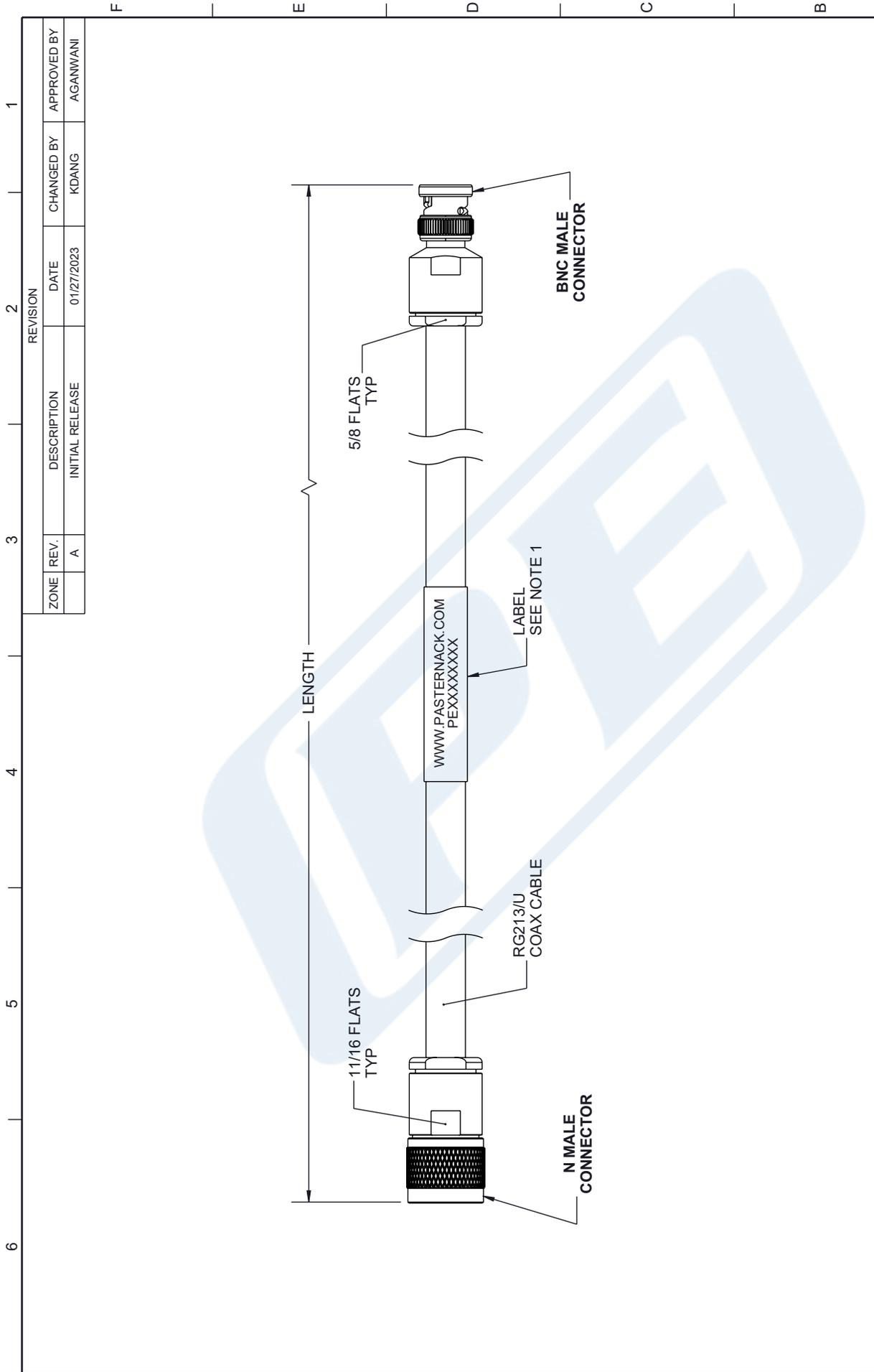
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to N Male Cable Using RG213 Coax PE3W09009](https://www.pasternack.com/bnc-male-to-n-male-cable-using-rg213-pe3w09009-p.aspx)

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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.

# PE3W09009 CAD Drawing

## BNC Male to N Male Cable Using RG213 Coax



	<p><b>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</b></p> <p>SCALE: NONE SHEET: 1 OF 1</p>
<p>Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a></p> <p>Phone: 1.866.727.8376   1.949.261.1920</p>	<p><b>BNC Male to N Male Cable Using RG213 Coax</b></p>
<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:          .X = ±.2 [ .5 ] FRACTIONS          .XX = ±.02 [ .5 ] ±.1/32          .XXX = ±.005 [ .13 ] ANGLES ± 1°</p> <p>CABLE LENGTH TOLERANCES:          &gt;12 [305] = +1 [25] / -0          &gt;60 [1524] = +2 [51] / -0          &gt;120 [3048] = +4 [102] / -0          &gt;300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.</p>	<p>DESCRIPTION: BNC Male to N Male Cable Using RG213 Coax</p>
<p>ZONE   REV.   DATE   CHANGED BY   APPROVED BY</p> <p>A   A   01/27/2023   KDANG   AGANWANI</p>	<p>SIZE: A CAGE CODE: 53919 DRAWN BY: KDANG ITEM NO.: PE3W09009 REV: A</p>

- NOTES:**
1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
  2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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