



## N Male Right Angle to BNC Male Right Angle Cable 50 CM Length Using RG400 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W00447-50CM

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: RG400

#### Features

- Max Frequency 1 GHz
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00447-50CM type N male right angle to BNC male right angle 50 cm cable using RG400 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG400 coax. The PE3W00447-50CM type N male to BNC male cable assembly operates to 1 GHz. The right angle type N and right angle BNC interfaces on the RG400 cable allow for easier connections in tight spaces. 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		1,000	MHz
VSWR			1.5:1	
Velocity of Propagation	69.5			%
Capacitance	32 [104.99]			pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to BNC Male Right Angle Cable 50 CM Length Using RG400 Coax PE3W00447-50CM](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Max.)	0.48	0.5	0.55	0.64		dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.4dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

Length\*  
Diameter

19.69 in [500.13 mm]  
1.102 in [27.99 mm]

##### Cable

Cable Type  
Impedance  
Inner Conductor Type  
Inner Conductor Material and Plating  
Dielectric Type  
Number of Shields  
Shield Layer 1  
Shield Layer 2  
Jacket Material  
Jacket Diameter

RG400  
50 Ohms  
Stranded  
Copper, Silver  
PTFE  
2  
Silver Plated Copper Braid  
Silver Plated Copper Braid  
FEP, Tan  
0.195 in [4.95 mm]

One Time Minimum Bend Radius

1 in [25.4 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	BNC Male Right Angle
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	Teflon	Teflon
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
Coupling Nut Plating Specification		100 $\mu$ in. minimum

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

#### Plotted and Other Data

Notes:

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#### How to Order

Part Number Configuration:

**PE3W00447**

- **xx**      **uu**

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

Example: PE3W00447-12 = 12 inches long cable  
PE3W00447-100cm = 100 cm long cable

N Male Right Angle to BNC Male Right Angle Cable 50 CM Length Using RG400 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.

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URL: <https://www.pasternack.com/n-male-bnc-male-rg400u-cable-assembly-pe3w00447-50cm-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.

# PE3W00447-50CM CAD Drawing

N Male Right Angle to BNC Male Right Angle Cable 50 CM Length Using RG400 Coax

