



BNC Male to BNC Male Cable 6 Inch Length Using PE-SR401AL Coax

RF Cable Assemblies Technical Data Sheet

PE34175-6

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: PE-SR401AL-STRAIGHT

Features

- Max Frequency 4 GHz
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE34175-6 BNC male to BNC male 6 inch cable using PE-SR401AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack BNC to BNC cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR401AL-STRAIGHT coax. The PE34175-6 BNC male to BNC male cable assembly operates to 4 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		4	GHz
Velocity of Propagation		69.5		%
Capacitance		29.6 [97.11]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			7,500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	0.5	1	4		GHz
Insertion Loss (Typ.)	0.223	0.225	0.238	0.292		dB
Power Handling (Max.)	962	661	265	174		W

Electrical Specification Notes:

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 BNC Male Cable 6 Inch Length Using PE-SR401AL Coax PE34175-6](#)



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The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.074 lbs [33.57 g]

Cable

Cable Type PE-SR401AL-STRAIGHT
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 1
Shield Layer 1 Tinned Aluminum
Jacket Diameter 0.25 in [6.35 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]

Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Specification	MIL-C-39012	MIL-C-39012
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

Mechanical Specification Notes:

Cable assemblies that are 60 inches or less use straight coax, greater than 60 inches use coiled coax

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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 BNC Male Cable 6 Inch Length Using PE-SR401AL Coax PE34175-6](#)



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How to Order

Part Number Configuration:

PE34175

- xx

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

Example: PE34175-12 = 12 inches long cable
PE34175-100cm = 100 cm long cable

BNC Male to BNC Male Cable 6 Inch Length Using PE-SR401AL 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 BNC Male Cable 6 Inch Length Using PE-SR401AL Coax PE34175-6](#)

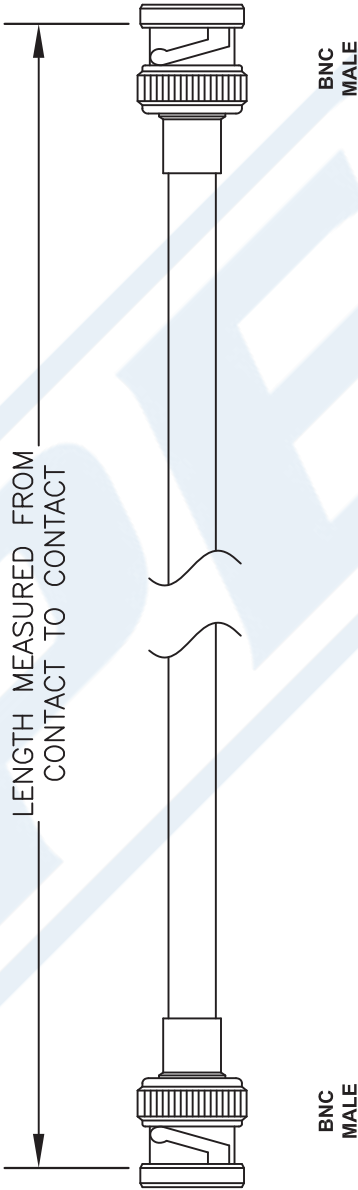
URL: <https://www.pasternack.com/bnc-male-bnc-male-pe-sr401al-cable-assembly-pe34175-6-p.aspx>

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.

PE34175-6 CAD Drawing

BNC Male to BNC Male Cable 6 Inch Length Using PE-SR401AL Coax

Standard Lengths	
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XXX	Custom Length in Inches



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

DWG TITLE
PE34175-XX

REV. -	FSCM NO. 53919	CAD FILE 020607	SCALE N/A	SIZE A	127
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