



BNC Male to BNC Male Cable 24 Inch Length  
Using PE-SR401AL Coax , LF Solder

**RF Cable Assemblies Technical Data Sheet**

**PE34175LF-24**

**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 PE34175LF-24 BNC male to BNC male 24 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 PE34175LF-24 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.) | 0.29 | 0.3 | 0.35 | 0.57 |    | 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 24 Inch Length Using PE-SR401AL Coax , LF Solder PE34175LF-24](#)



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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 0.173 lbs [78.47 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 24 Inch Length Using PE-SR401AL Coax , LF Solder PE34175LF-24](#)



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## RF Cable Assemblies Technical Data Sheet

**PE34175LF-24**

### How to Order

Part Number Configuration:

**PE34175LF**

- **xx**

**uu**

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

Example: PE34175LF-12 = 12 inches long cable  
PE34175LF-100cm = 100 cm long cable

BNC Male to BNC Male Cable 24 Inch Length Using PE-SR401AL Coax , LF Solder 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 24 Inch Length Using PE-SR401AL Coax , LF Solder PE34175LF-24](https://www.pasternack.com/bnc-male-bnc-male-pe-sr401al-cable-assembly-pe34175lf-24-p.aspx)

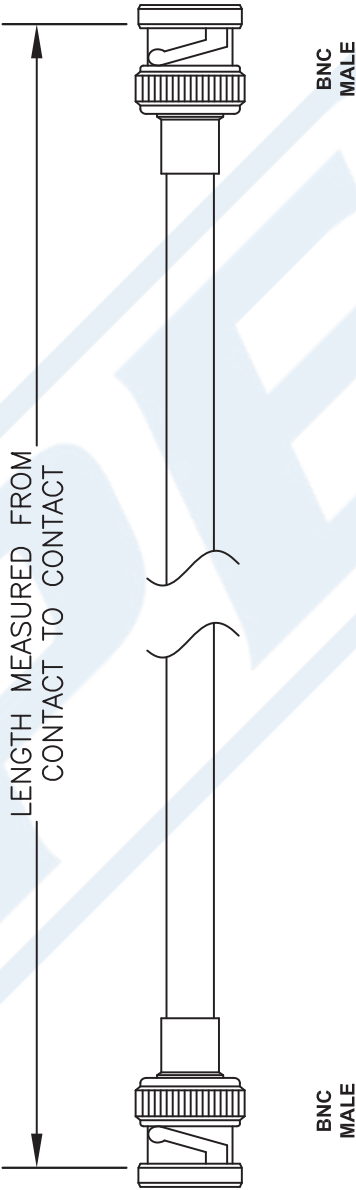
URL: <https://www.pasternack.com/bnc-male-bnc-male-pe-sr401al-cable-assembly-pe34175lf-24-p.aspx>

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.

PE34175LF-24 CAD Drawing

BNC Male to BNC Male Cable 24 Inch Length Using PE-SR401AL Coax , LF Solder

| 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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