



## SMC Plug to BNC Male Cable 24 Inch Length Using RG174 Coax

**RF Cable Assemblies Technical Data Sheet****PE3C3425-24****Configuration**

- Connector 1: SMC Plug
- Connector 2: BNC Male
- Cable Type: RG174

**Electrical Specifications**

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 1,000   | MHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 31.1 [102.03] |         | pF/ft [pF/m] |

**Specifications by Frequency**

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 50    | 100    | 250    | 500    | 1,000  | MHz   |
| Insertion Loss (Max.) | 0.28  | 0.37   | 0.47   | 0.62   | 0.84   | dB    |
| Insertion Loss (Typ.) | 0.284 | 0.368  | 0.474  | 0.623  | 0.84   | dB    |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  | 1.4:1  |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB    |

**Mechanical Specifications****Cable Assembly**

|          |                    |
|----------|--------------------|
| Length*  | 24 in [609.6 mm]   |
| Diameter | 0.57 in [14.48 mm] |

**Cable**

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG174                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PE (LD)                   |
| Number of Shields                    | 1                         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to BNC Male Cable 24 Inch Length Using RG174 Coax PE3C3425-24](#)



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**PE3C3425-24**

Shield Layer 1  
Jacket Material  
Jacket Diameter

Tinned Copper Braid  
PVC, Black  
0.11 in [2.79 mm]

#### Connectors

| Description                        | Connector 1            | Connector 2      |
|------------------------------------|------------------------|------------------|
| Type                               | SMC Plug               | BNC Male         |
| Specification                      | MIL-STD-348A           | MIL-STD-348A     |
| Impedance                          | 50 Ohms                | 50 Ohms          |
| Contact Material and Plating       | Beryllium Copper, Gold | Brass, Gold      |
| Contact Plating Specification      | 30 µin minimum         | 50µ in. minimum  |
| Dielectric Type                    | PTFE                   | Teflon           |
| Body Material and Plating          | Brass, Nickel          | Brass, Nickel    |
| Body Plating Specification         | 100 µin minimum        | 100µ in. minimum |
| Coupling Nut Material and Plating  | Brass, Nickel          | Brass, Nickel    |
| Coupling Nut Plating Specification | 100 µin minimum        | 100µ in. minimum |
| Hex Size                           | 1/4 inch               |                  |

#### Mechanical Specification Notes:

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

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +80 deg C

#### 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: [SMC Plug to BNC Male Cable 24 Inch Length Using RG174 Coax PE3C3425-24](#)



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### RF Cable Assemblies Technical Data Sheet

**PE3C3425-24**

#### How to Order

Part Number Configuration:

**PE3C3425**

- **xx**

**uu**

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

Example: PE3C3425-12 = 12 inches long cable  
PE3C3425-100cm = 100 cm long cable

SMC Plug to BNC Male Cable 24 Inch Length Using RG174 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.

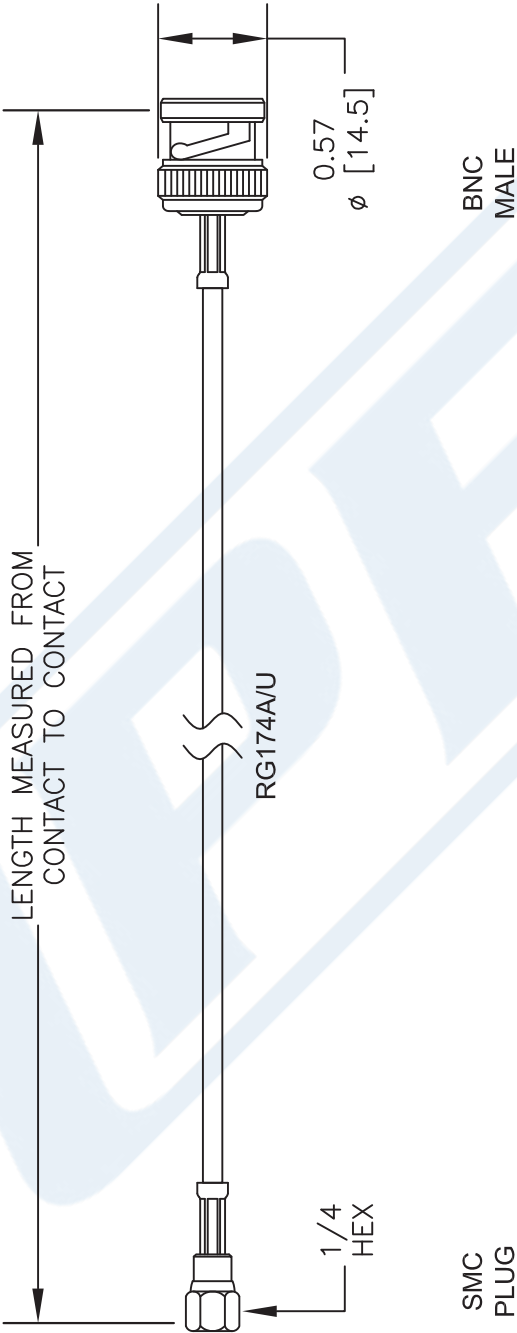
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to BNC Male Cable 24 Inch Length Using RG174 Coax PE3C3425-24](https://www.pasternack.com/smc-plug-bnc-male-rg174au-cable-assembly-pe3c3425-24-p.aspx)

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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.

PE3C3425-24 CAD Drawing

SMC Plug to BNC Male Cable 24 Inch Length Using RG174 Coax



- 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

PE3C3425

FSCM NO. 53919

CAD FILE 102016

SCALE N/A

SIZE A

2233

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