



## SMC Plug to BNC Male Cable 12 Inch Length Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

PE3C3425-12

#### 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.)	0.24	0.28	0.34	0.41	0.52	dB
Insertion Loss (Typ.)	0.242	0.284	0.337	0.412	0.52	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*	12 in [304.8 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 12 Inch Length Using RG174 Coax PE3C3425-12](#)



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Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	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 $\mu$ in minimum	50 $\mu$ in. minimum
Dielectric Type	PTFE	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	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	100 $\mu$ 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.

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## SMC Plug to BNC Male Cable 12 Inch Length Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

PE3C3425-12

#### 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 12 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.

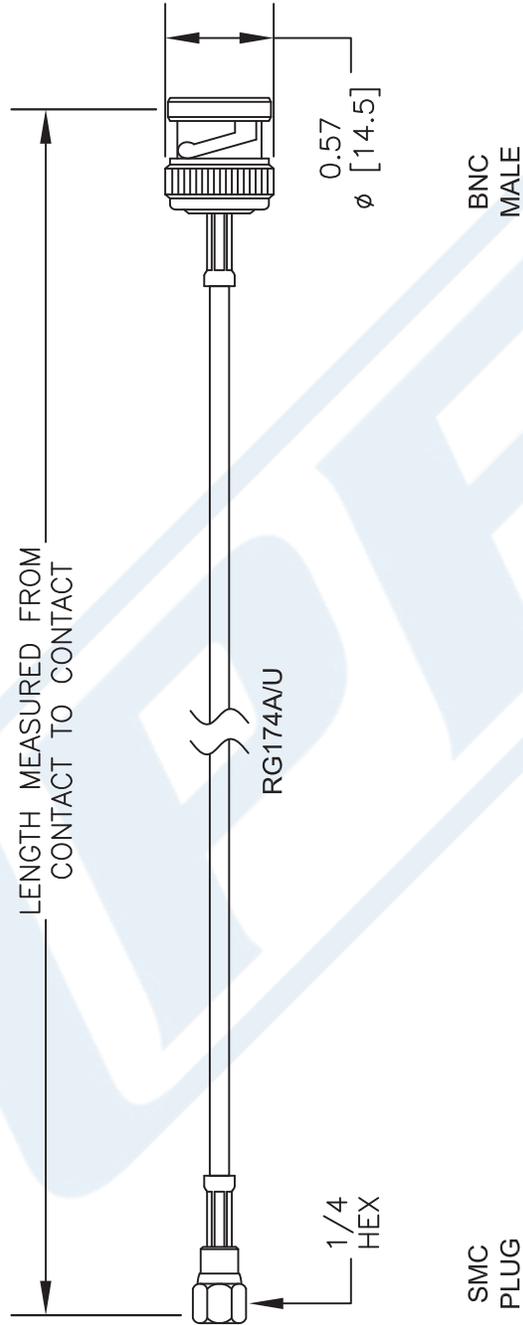
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to BNC Male Cable 12 Inch Length Using RG174 Coax PE3C3425-12](https://www.pasternack.com/smc-plug-bnc-male-rg174au-cable-assembly-pe3c3425-12-p.aspx)

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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.

# PE3C3425-12 CAD Drawing

SMC Plug to BNC Male Cable 12 Inch Length Using RG174 Coax



DWG TITLE

**PE3C3425**

- 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.

FSCM NO. 53919

CAD FILE 102016

SCALE N/A

SIZE A

2233



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