



## SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C2599-48**

#### Configuration

- Connector 1: SMC Plug
- Connector 2: BNC Male
- Cable Type: RG316

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 3       | GHz             |
| VSWR                          |         |              | 1.4:1   |                 |
| Velocity of Propagation       |         | 69           |         | %               |
| Capacitance                   |         | 29.4 [96.46] |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 8.41 [27.59] |         | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC)        |         |              | 335     | Vrms            |
| Jacket Spark                  |         |              | 2,000   | Vrms            |

#### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 0.1   | 0.25   | 0.5    | 1      | 3      | GHz   |
| Insertion Loss (Max.) | 0.66  | 0.78   | 0.99   | 1.4    | 2.38   | dB    |
| Insertion Loss (Typ.) | 0.64  | 0.84   | 1.153  | 1.72   | 2.52   | 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\* 48 in [121.92 cm]  
Diameter 0.57 in [14.48 mm]

##### Cable

Cable Type RG316  
Impedance 50 Ohms

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 48 Inch Length Using RG316 Coax PE3C2599-48](#)



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|                                      |                            |
|--------------------------------------|----------------------------|
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.102 in [2.59 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 -55 to +165 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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**PE3C2599-48**

#### How to Order

Part Number Configuration:

**PE3C2599**

- **xx**

**uu**

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

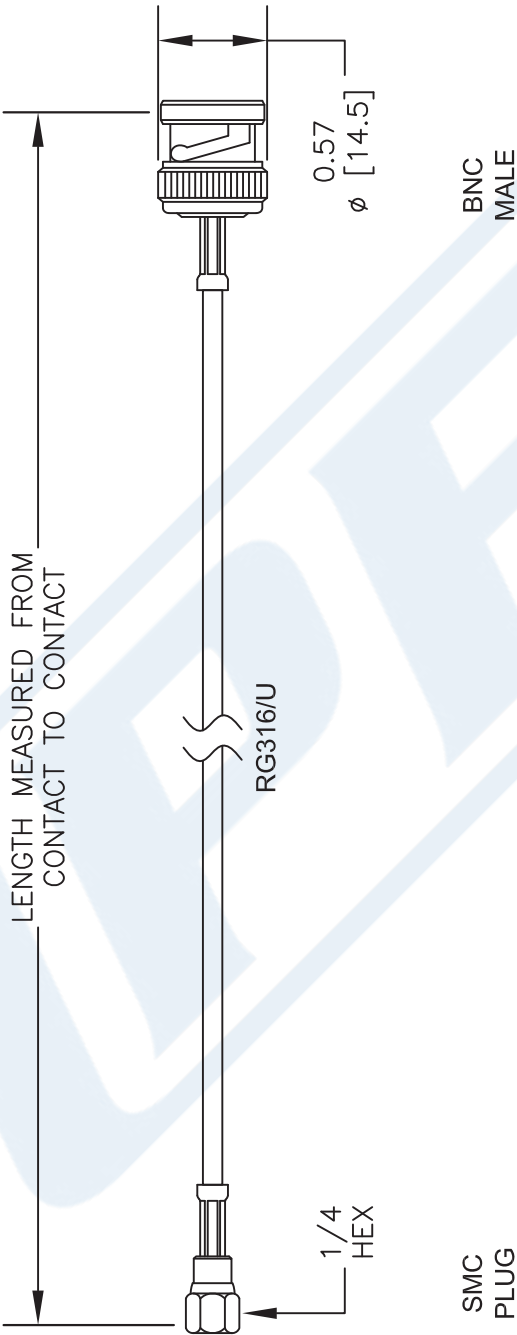
Example: PE3C2599-12 = 12 inches long cable  
PE3C2599-100cm = 100 cm long cable

SMC Plug to BNC Male Cable 48 Inch Length Using RG316 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 48 Inch Length Using RG316 Coax PE3C2599-48](https://www.pasternack.com/smc-plug-bnc-male-rg316u-cable-assembly-pe3c2599-48-p.aspx)

URL: <https://www.pasternack.com/smc-plug-bnc-male-rg316u-cable-assembly-pe3c2599-48-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.



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      |  | CAD FILE |  | SCALE |  |
| PE3C2599       |  | 102016   |  | N/A   |  |
| FSCM NO. 53919 |  | SIZE     |  | 2233  |  |

PE

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