



# 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<br>Length*<br>Diameter   | 48 in [121.92 cm]<br>0.57 in [14.48 mm] |
|---|---|
| <b>Cable</b><br>Cable Type<br>Impedance | RG316<br>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

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com





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Inner Conductor Material and Plating

Inner Conductor Type



# ISO 9001 : 2008 Registered



# PE3C2599-48

Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.102 in [2.59 mm]

# Connectors

Dielectric Type

Shield Layer 1

**Jacket Material** 

Jacket Diameter

Number of Shields

| Description                        | Connector 1            | Connector 2      |  |
|------------------------------------|------------------------|------------------|--|
| Туре                               | 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

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- Notes:
- Values at 25°C, sea level.

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# How to Order Part Number Configuration: PE3C2599 uu - XX - Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** PE3C2599-12 = 12 inches long cable Example: 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 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.

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PE3C2599-48 CAD Drawing SMC Plug to BNC Male Cable 48 Inch Length Using RG316 Coax

