



SMC Plug to BNC Male Cable 60 Inch Length Using RG316 Coax

RF Cable Assemblies Technical Data Sheet

PE3C2599-60

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.) | 0.77 | 0.93 | 1.19 | 1.7 | 2.93 | dB |
| Insertion Loss (Typ.) | 0.75 | 1 | 1.392 | 2.1 | 3.1 | 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* 60 in [152.4 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 60 Inch Length Using RG316 Coax PE3C2599-60](#)



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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

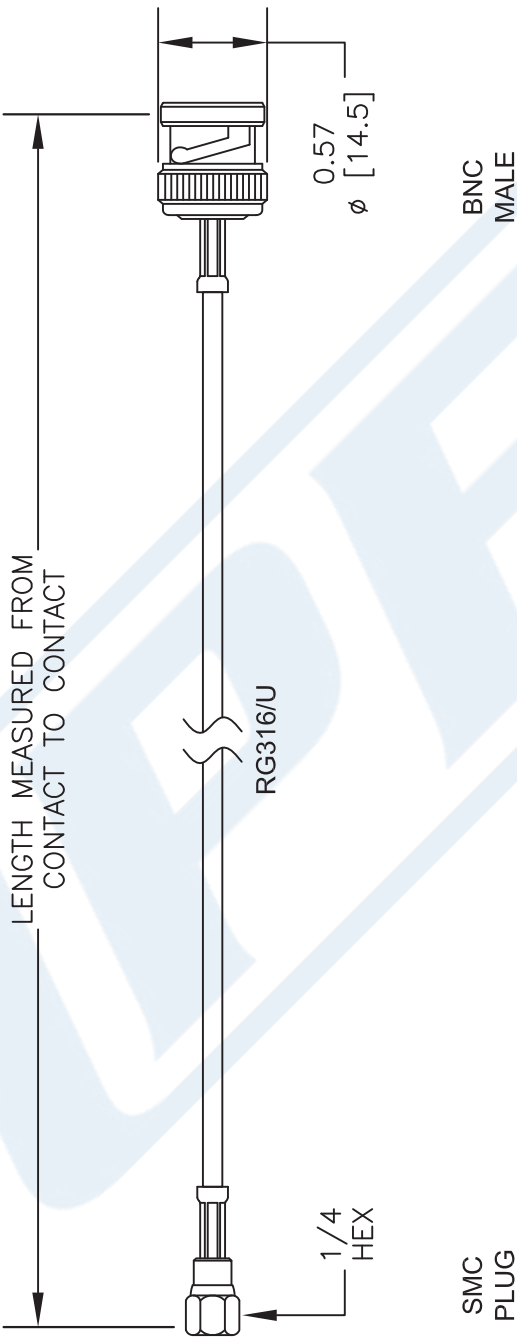
Notes:

- Values at 25°C, sea level.

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PE3C2599-60 CAD Drawing

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- 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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THE ENGINEER'S RF SOURCE

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