

## SMB Plug Right Angle to BNC Female Bulkhead Cable Using RG316 Coax

### PE33331

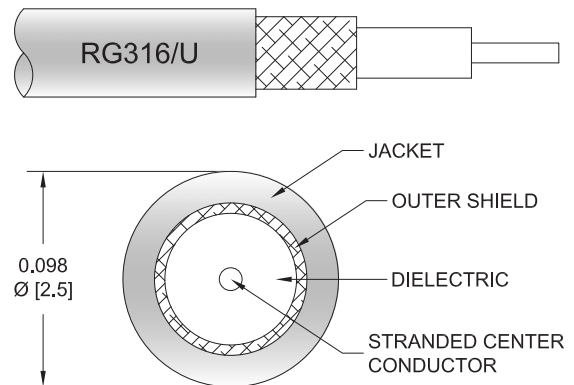


#### Configuration

- Connector 1: SMB Plug Right Angle
- Connector 2: BNC Female Bulkhead
- Cable Type: RG316
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE33331 SMB plug right angle to BNC female bulkhead cable using RG316 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMB to BNC cable assembly has a plug to female gender configuration with 50 ohm flexible RG316 coax. The PE33331 SMB plug to BNC female cable assembly operates to 1 GHz. The right angle SMB interface on the RG316 cable allows for easier connections in tight spaces. Our RF cable assembly with BNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### Electrical Specifications

| Description     | Minimum | Typical     | Maximum | Units        |
|-----------------|---------|-------------|---------|--------------|
| Frequency Range | DC      |             | 1,000   | MHz          |
| VSWR            |         |             | 1.4:1   |              |
| Capacitance     |         | 32 [104.99] |         | pF/ft [pF/m] |

#### Specifications by Frequency

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| Part Number | Length                   | Description           | F1   | F2   | F3   | F4   | F5   | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
|             |                          | Frequency             | 50   | 100  | 250  | 500  | 1000 | MHz   |              |
| PE33331     | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.11 | 0.16 | 0.24 | 0.38 | dB/ft |              |
|             |                          |                       | 0.25 | 0.37 | 0.53 | 0.79 | 1.25 | dB/m  |              |
| PE33331-12  | 12 inch                  | Insertion Loss (Typ.) | 0.38 | 0.41 | 0.46 | 0.54 | 0.68 | dB    | 0.068        |
| PE33331-24  | 24 inch                  | Insertion Loss (Typ.) | 0.45 | 0.52 | 0.62 | 0.78 | 1.06 | dB    | 0.079        |
| PE33331-36  | 36 inch                  | Insertion Loss (Typ.) | 0.53 | 0.63 | 0.78 | 1.02 | 1.44 | dB    | 0.089        |
| PE33331-48  | 48 inch                  | Insertion Loss (Typ.) | 0.6  | 0.74 | 0.94 | 1.26 | 1.82 | dB    | 0.099        |
| PE33331-72  | 72 inch                  | Insertion Loss (Typ.) | 0.75 | 0.96 | 1.26 | 1.73 | 2.58 | dB    | 0.119        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

|                             |                |
|-----------------------------|----------------|
| Loss due to Connector 1:    | 0.2 dB         |
| Loss due to Connector 2:    | 0.1 dB         |
| Base Weight:                | 0.068 pounds   |
| Additional Weight per Inch: | 0.00084 pounds |

## Mechanical Specifications

### Cable Assembly

|        |                     |
|--------|---------------------|
| Weight | 0.068 lbs [30.84 g] |
|--------|---------------------|

### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316                      |
| Impedance                            | 50 Ohms                    |
| 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                      | 0.098 in [2.49 mm]         |

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Connectors

| Description                           | Connector 1            | Connector 2         |
|---------------------------------------|------------------------|---------------------|
| Type                                  | SMB Plug Right Angle   | BNC Female Bulkhead |
| Specification                         | MIL-STD-348A           |                     |
| Impedance                             | 50 Ohms                | 50 Ohms             |
| Configuration                         | Right Angle            | Straight            |
| Contact Material and Plating          | Beryllium Copper, Gold | Brass, Gold         |
| Contact Plating Specification         | 30 µin minimum         | 30µ in. minimum     |
| Dielectric Type                       | PTFE                   | PTFE                |
| Outer Conductor Material and Plating  | Brass, Nickel          |                     |
| Outer Conductor Plating Specification | 100 µin minimum        |                     |
| Body Material and Plating             | Brass, Nickel          | Brass, Nickel       |
| Body Plating Specification            | 100 µin minimum        | 100µ in. minimum    |

Environmental Specifications

Operating Range Temperature -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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### PE33331

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE33331**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE33331-12 = 12 inches long cable  
PE33331-100cm = 100 cm long cable

SMB Plug Right Angle to BNC Female Bulkhead Cable 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: [SMB Plug Right Angle to BNC Female Bulkhead Cable Using RG316 Coax PE33331](#)

URL: <https://www.pasternack.com/smb-plug-right-angle-to-bnc-female-bulkhead-cable-using-rg316-pe33331-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE33331 CAD Drawing
SMB Plug Right Angle to BNC Female Bulkhead Cable Using RG316 Coax

