

## SMC Plug to SMC Jack Bulkhead Cable 12 Inch Length Using PE-B100 Coax

### PE34509LF-12



#### Configuration

- Connector 1: SMC Plug
- Connector 2: SMC Jack Bulkhead
- Cable Type: PE-B100
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- 62% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34509LF-12 SMC plug to SMC jack bulkhead 12 inch cable using PE-B100 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 SMC to SMC cable assembly has a plug to jack gender configuration with 50 ohm flexible PE-B100 coax. The PE34509LF-12 SMC plug to SMC jack cable assembly operates to 6 GHz. Our RF cable assembly with SMC 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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      |             | 6       | GHz          |
| VSWR                    |         |             | 1.4:1   |              |
| Velocity of Propagation |         | 62          |         | %            |
| Capacitance             |         | 38 [124.67] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |             | 335     | Vrms         |

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter

0.25 in [6.35 mm]

Weight

0.013 lbs [5.9 g]

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#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | PE-B100             |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | PVC                 |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.101 in [2.57 mm]  |

#### Connectors

| Description                   | Connector 1            | Connector 2       |
|-------------------------------|------------------------|-------------------|
| Type                          | SMC Plug               | SMC Jack Bulkhead |
| Specification                 | MIL-STD-348A           | MIL-STD-348A      |
| Impedance                     | 50 Ohms                | 50 Ohms           |
| Configuration                 | Straight               | Straight          |
| Contact Material and Plating  | Beryllium Copper, Gold | Brass, Gold       |
| Contact Plating Specification | 30μ in. minimum        | 30μ in. minimum   |
| Dielectric Type               | Teflon                 | Teflon            |
| Body Material and Plating     | Brass, Nickel          | Brass, Nickel     |
| Body Plating Specification    | 100μ in. minimum       | 100μ in. minimum  |
| Hex Size                      | 1/4 in                 |                   |

#### Environmental Specifications

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

Values at 25°C, sea level.

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#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE34509LF - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE34509LF-12 = 12 inches long cable  
PE34509LF-100cm = 100 cm long cable

SMC Plug to SMC Jack Bulkhead Cable 12 Inch Length Using PE-B100 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 SMC Jack Bulkhead Cable 12 Inch Length Using PE-B100 Coax PE34509LF-12](#)

URL: <https://www.pasternack.com/smc-plug-smc-jack-pe-b100-cable-assembly-pe34509lf-12-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.

PE34509LF-12 CAD Drawing

SMC Plug to SMC Jack Bulkhead Cable 12 Inch Length Using PE-B100 Coax

