

BNC Male to SMB Plug Cable Using  
RG174 Coax with HeatShrink, LF Solder



**RF Cable Assemblies Technical Data Sheet**

**PE3C3817LF/HS**

**Configuration**

- Connector 1: BNC Male
- Connector 2: SMB Plug
- Cable Type: RG174

**Features**

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

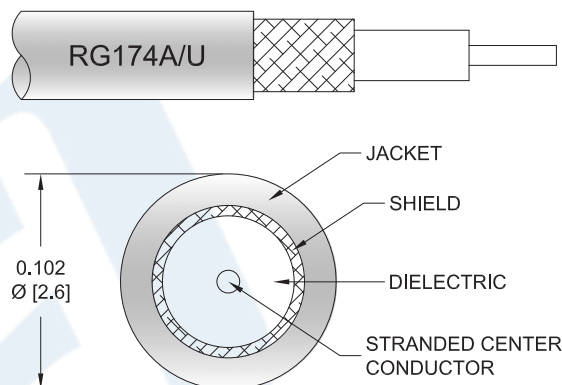
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C3817LF/HS BNC male to SMB plug cable using RG174 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 BNC to SMB cable assembly has a male to plug gender configuration with 50 ohm flexible RG174 coax. The PE3C3817LF/HS BNC male to SMB plug cable assembly operates to 1 GHz.

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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to SMB Plug Cable Using RG174 Coax with HeatShrink, LF Solder PE3C3817LF/HS](#)



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### Electrical Specifications

| Description             | Minimum | Typical        | Maximum | Units        |
|-------------------------|---------|----------------|---------|--------------|
| Frequency Range         | DC      |                | 1,000   | MHz          |
| VSWR                    |         |                | 1.4:1   |              |
| Velocity of Propagation |         | 66             |         | %            |
| Capacitance             |         | 31.08 [101.97] |         | pF/ft [pF/m] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5    | Units |
|-----------------------|------|------|------|------|-------|-------|
| Frequency             | 100  | 250  | 400  | 500  | 1,000 | MHz   |
| Insertion Loss (Typ.) | 0.08 | 0.13 | 0.19 | 0.21 | 0.32  | dB/ft |
|                       | 0.26 | 0.43 | 0.62 | 0.69 | 1.05  | dB/m  |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.062 lbs [28.12 g]

#### Cable

Cable Type RG174  
Impedance 50 Ohms  
Inner Conductor Type Stranded  
Inner Conductor Material and Plating Copper Clad Steel  
Dielectric Type PE  
Number of Shields 1  
Shield Layer 1 Tinned Copper Braid  
Jacket Material PVC, Black  
Jacket Diameter 0.11 in [2.79 mm]

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### Connectors

| Description                        | Connector 1     | Connector 2            |
|------------------------------------|-----------------|------------------------|
| Type                               | BNC Male        | SMB Plug               |
| Specification                      | MIL-STD-348A    | MIL-STD-348A           |
| Impedance                          | 50 Ohms         | 50 Ohms                |
| Mating Cycles                      | 500             |                        |
| Contact Material and Plating       | Brass, Gold     | Beryllium Copper, Gold |
| Contact Plating Specification      | 30 µin minimum  | 30 µin minimum         |
| Dielectric Type                    | PTFE            | PTFE                   |
| Body Material and Plating          | Brass, Nickel   | Brass, Nickel          |
| Body Plating Specification         | 100 µin minimum | 100 µin minimum        |
| Coupling Nut Material and Plating  | Brass, Nickel   | Brass, Nickel          |
| Coupling Nut Plating Specification |                 | 100 µin minimum        |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +80 deg C

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

### Plotted and Other Data

Notes:

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## BNC Male to SMB Plug Cable Using RG174 Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3C3817LF/HS**

#### How to Order

Part Number Configuration:

**PE3C3817LF/HS - xx**

**uu**

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

Example: PE3C3817LF/HS-12 = 12 inches long cable  
PE3C3817LF/HS-100cm = 100 cm long cable

BNC Male to SMB Plug Cable Using RG174 Coax with HeatShrink, LF Solder 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: [BNC Male to SMB Plug Cable Using RG174 Coax with HeatShrink, LF Solder PE3C3817LF/HS](https://www.pasternack.com/bnc-male-to-smb-plug-cable-using-rg174-with-heatshrink-lf-solder-pe3c3817lf-hs-p.aspx)

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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.

PE3C3817LF/HS CAD Drawing

BNC Male to SMB Plug Cable Using RG174 Coax with HeatShrink, LF Solder

