

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

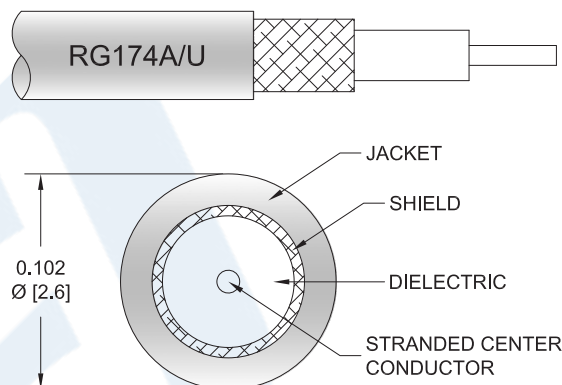
Applications

- 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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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

