

SMA Male Right Angle to BNC Female Bulkhead Cable Using RG174 Coax , LF Solder



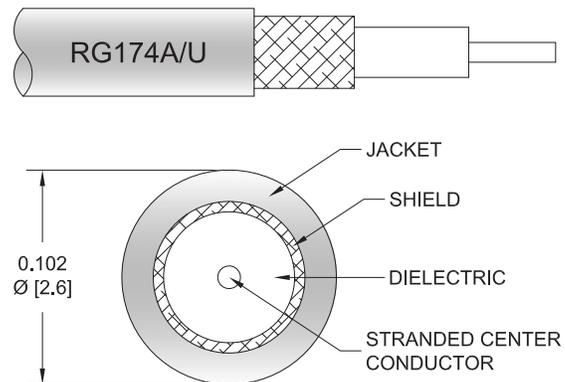
PE3972LF

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: BNC Female Bulkhead
- Cable Type: RG174
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3972LF SMA male right angle to BNC female bulkhead 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 SMA to BNC cable assembly has a male to female gender configuration with 50 ohm flexible RG174 coax. The PE3972LF SMA male to BNC female cable assembly operates to 1 GHz. The right angle SMA interface on the RG174 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	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.)	0.042	0.084	0.102	0.211	0.32	dB/ft
	0.14	0.28	0.33	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 and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.069 lbs [31.3 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]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	BNC Female Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, 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	

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

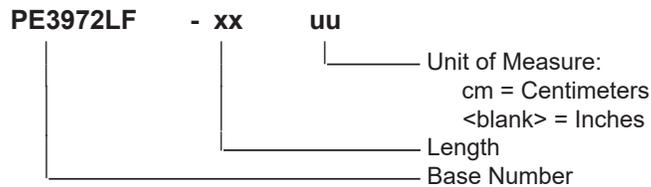
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3972LF-12 = 12 inches long cable
PE3972LF-100cm = 100 cm long cable

SMA Male Right Angle to BNC Female Bulkhead Cable Using RG174 Coax , 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: [SMA Male Right Angle to BNC Female Bulkhead Cable Using RG174 Coax , LF Solder PE3972LF](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-bnc-female-bulkhead-cable-using-rg174-lf-solder-pe3972lf-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.

PE3972LF CAD Drawing

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