

10-32 Male to SMA Male Cable Using RG174 Coax, LF Solder



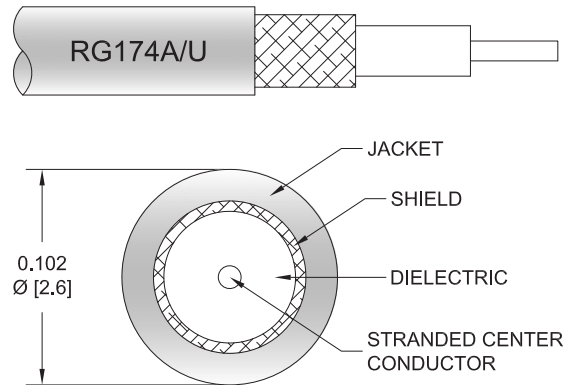
PE37637LF

Configuration

- Connector 1: 10-32 Male
- Connector 2: SMA Male
- 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 PE37637LF 10-32 male to SMA male 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 10-32 to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG174 coax. The PE37637LF 10-32 male to SMA male 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.

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

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE37637LF	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.21	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
PE37637LF-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.42	0.52	dB	0.035
PE37637LF-24	24 inch	Insertion Loss (Typ.)	0.37	0.48	0.63	0.84	dB	0.044
PE37637LF-36	36 inch	Insertion Loss (Typ.)	0.46	0.62	0.84	1.16	dB	0.053
PE37637LF-48	48 inch	Insertion Loss (Typ.)	0.54	0.75	1.05	1.48	dB	0.062
PE37637LF-72	72 inch	Insertion Loss (Typ.)	0.71	1.03	1.47	2.12	dB	0.08

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: 0.1 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.035 pounds
 Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.035 lbs [15.88 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	10-32 Male	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	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	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size	1/4 inch	5/16 inch
Torque		5 in-lbs 0.57 Nm

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

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PE37637LF

Typical Performance Data

How to Order

Part Number Configuration:

PE37637LF **- xx** **uu**

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

Length

Base Number

Example: PE37637LF-12 = 12 inches long cable
 PE37637LF-100cm = 100 cm long cable

10-32 Male to SMA Male 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: [10-32 Male to SMA Male Cable Using RG174 Coax, LF Solder PE37637LF](https://www.pasternack.com/10-32-male-to-sma-male-cable-using-rg174-coax-lf-solder-pe37637lf-p.aspx)

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PE37637LF CAD Drawing
10-32 Male to SMA Male Cable Using RG174 Coax, LF Solder

