

## SMA Male to SMA Male Cable Using RG223 Coax with HeatShrink, LF Solder



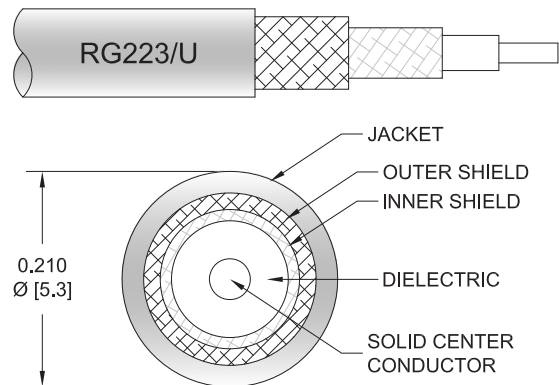
### PE3377LF/HS

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: RG223
- Coax Flex Type: Flexible

#### Features

- Max Frequency 12.4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3377LF/HS SMA male to SMA male cable using RG223 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3377LF/HS SMA male to SMA male cable assembly operates to 12.4 GHz. 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		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

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**PE3377LF/HS**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2500	5000	
PE3377LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.134	0.219	0.335	0.541	dB/ft	
			0.3	0.44	0.72	1.1	1.78	dB/m	
PE3377LF/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.34	0.42	0.54	0.75	dB	0.061
PE3377LF/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.47	0.64	0.87	1.29	dB	0.093
PE3377LF/HS-36	36 inch	Insertion Loss (Typ.)	0.47	0.61	0.86	1.21	1.83	dB	0.124
PE3377LF/HS-60	60 inch	Insertion Loss (Typ.)	0.65	0.87	1.3	1.88	2.91	dB	0.186
PE3377LF/HS-72	72 inch	Insertion Loss (Typ.)	0.74	1.01	1.52	2.21	3.45	dB	0.217

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: 0.061 pounds  
 Additional Weight per Inch: 0.00259 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.061 lbs [27.67 g]

**Cable**

Cable Type RG223  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PE  
 Number of Shields 2  
 Shield Layer 1 Silver Plated Copper Braid  
 Shield Layer 2 Silver Plated Copper Braid  
 Jacket Material PVC, Black  
 Jacket Diameter 0.209 in [5.31 mm]  
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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**PE3377LF/HS**

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 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	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	3 in-lbs 0.34 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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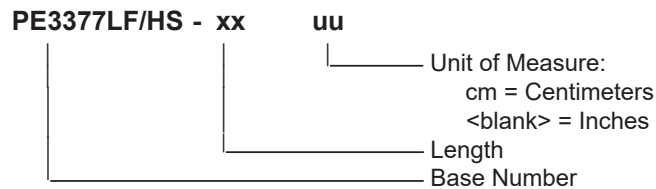


### PE3377LF/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3377LF/HS-12 = 12 inches long cable  
PE3377LF/HS-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using RG223 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.

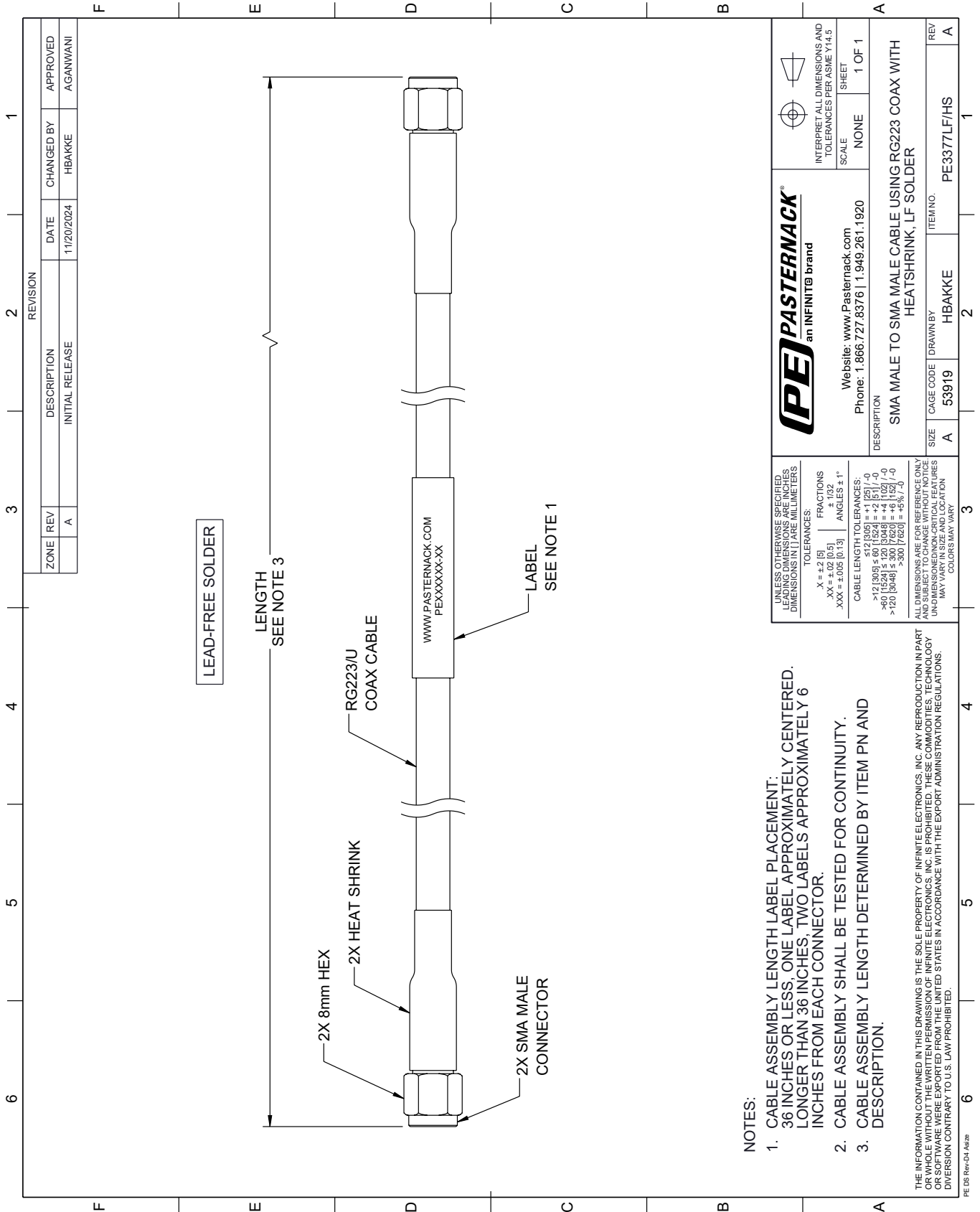
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Cable Using RG223 Coax with HeatShrink, LF Solder PE3377LF/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg223-with-heatshrink-lf-solder-pe3377lf-hs-p.aspx>

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# PE3377LF/HS CAD Drawing

SMA Male to SMA Male Cable Using RG223 Coax with HeatShrink, LF Solder



**NOTES:**

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	11/20/2024	HBAKKE	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

<p><b>PASTERNAK</b> an INFINITI® brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>	
		SCALE	SHEET
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		NONE	1 OF 1
DESCRIPTION SMA MALE TO SMA MALE CABLE USING RG223 COAX WITH HEATSHRINK, LF SOLDER			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3377LF/HS
REV			A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS.

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]

FRACTIONS  
 ± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 >12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/UNCLEAR FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.