

SMA Male to Straight Cut Lead Cable 36 Inch Length  
Using RG223 Coax with HeatShrink, LF Solder



RF Cable Assemblies Technical Data Sheet

PE3509LF/HS-36

**Configuration**

- Connector 1: SMA Male
- Connector 2: Straight Cut Lead
- Cable Type: RG223

**Features**

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

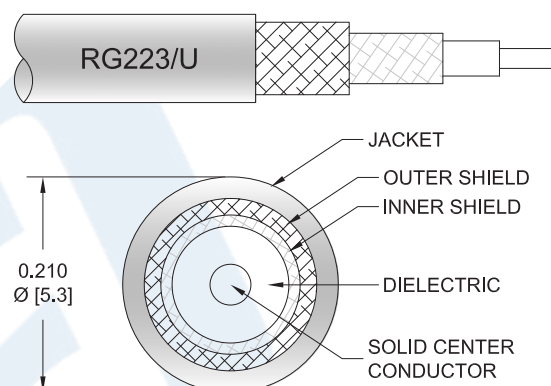
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3509LF/HS-36 50 ohm SMA male to straight cut lead 36 inch 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. The PE3509LF/HS-36 SMA male to straight cut lead cable assembly operates to 1 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.



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 Straight Cut Lead Cable 36 Inch Length Using RG223 Coax with HeatShrink, LF Solder PE3509LF/HS-36](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.45:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.28	0.32	0.39	0.49	0.63	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 36 in [914.4 mm]

#### 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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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	Straight Cut Lead
Specification	MIL-STD-348A	
Impedance	50 Ohms	0 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs [0.34 Nm]	

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

**Plotted and Other Data**

Notes:

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## SMA Male to Straight Cut Lead Cable 36 Inch Length Using RG223 Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

PE3509LF/HS-36

#### How to Order

Part Number Configuration:

PE3509LF/HS - xx

uu

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

Example: PE3509LF/HS-12 = 12 inches long cable  
PE3509LF/HS-100cm = 100 cm long cable

SMA Male to Straight Cut Lead Cable 36 Inch Length 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.

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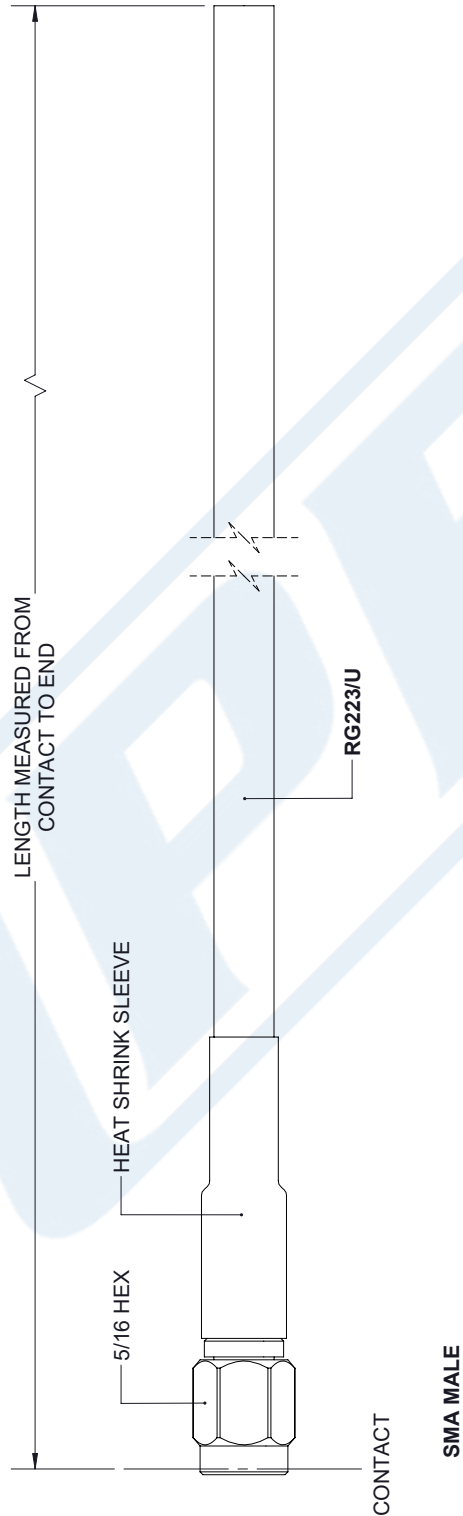
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

**PE3509LF/HS-36 CAD Drawing**  
SMA Male to Straight Cut Lead Cable 36 Inch Length Using  
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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/25/2020	S.ELLIS



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

TOLERANCES:

	FRACTIONS	ANGLES
.X = ± .2	[.08]	± 1/32
.XX = ± .02	[.51]	± 1°
.XXX = ± .005	[.13]	± 1°
CABLE LENGTH (L) TOLERANCES:		
L ≤ 12 [305]	= +1 [25] / -0	
12 [305] < L ≤ 60 [1524]	= +2 [51] / -0	
60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0	
120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0	
300 [7620] < L	= +5%L / -0	



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SHEET	1	OF	1
SCALE	N/A		

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.DANG	PE3509LF/HS	A

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