



## SHV Plug to HN Female Cable Using RG213 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE37820LF**

#### Configuration

- Connector 1: SHV Plug
- Connector 2: HN Female
- Cable Type: RG213

#### Features

- Max Frequency 300 MHz
- 66% Phase Velocity
- PVC Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE37820LF SHV plug to HN female cable using RG213 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 SHV to HN cable assembly has a plug to female gender configuration with 50 ohm flexible RG213 coax. The PE37820LF SHV plug to HN female cable assembly operates to 300 MHz.

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		300	MHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	300			MHz
Insertion Loss (Typ.)	0.021	0.034	0.039			dB/ft
	0.07	0.11	0.13			dB/m

#### Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SHV Plug to HN Female Cable Using RG213 Coax , LF Solder PE37820LF](#)



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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	0.324 lbs [146.96 g]
<b>Cable</b>	
Cable Type	RG213
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.405 in [10.29 mm]
Repeated Minimum Bend Radius	1.6 in [40.64 mm]

##### Connectors

Description	Connector 1	Connector 2
Type	SHV Plug	HN Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 pinches minimum	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 pinches minimum	100 pin minimum

#### Environmental Specifications

##### Temperature

Operating Range

-25 to +70 deg C

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

#### Plotted and Other Data

Notes:

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**PE37820LF**

#### How to Order

Part Number Configuration:

PE37820LF - xx uu

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

Example: PE37820LF-12 = 12 inches long cable  
PE37820LF-100cm = 100 cm long cable

SHV Plug to HN Female Cable Using RG213 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: [SHV Plug to HN Female Cable Using RG213 Coax , LF Solder PE37820LF](#)

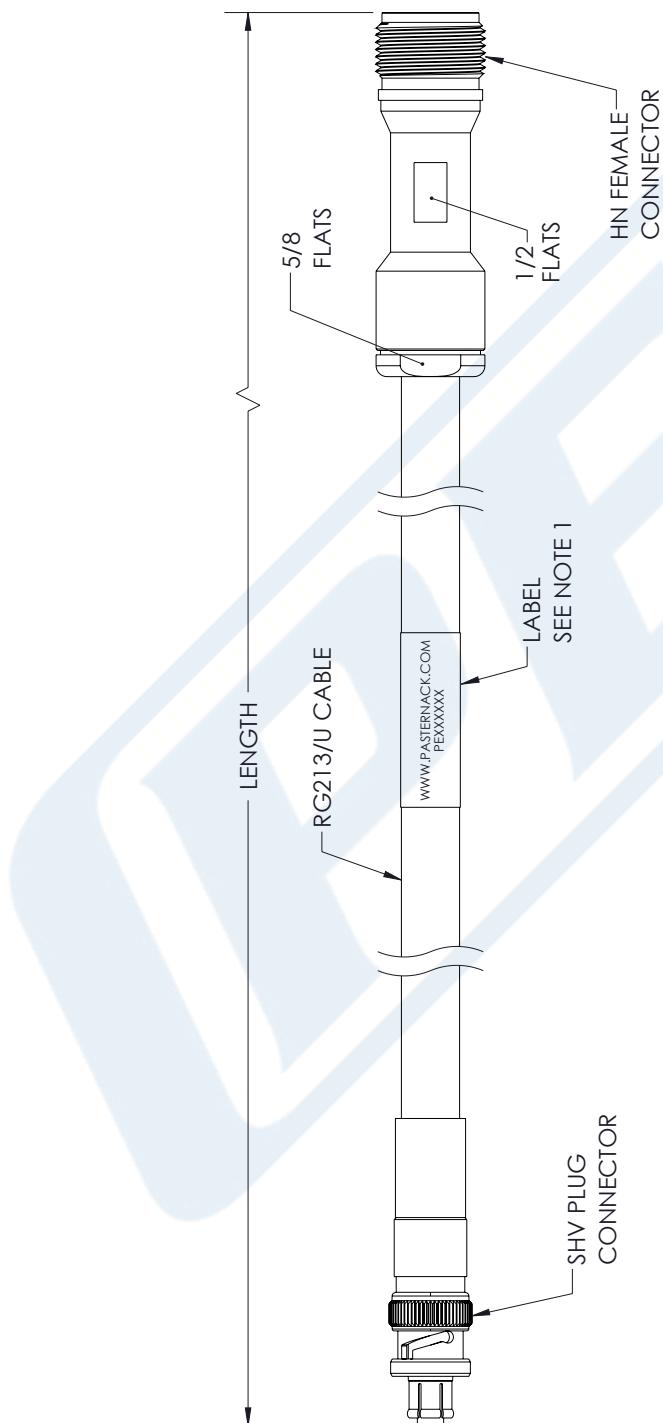
URL: <https://www.pasternack.com/shv-plug-to-hn-female-cable-using-rg213-lf-solder-pe37820lf-p.aspx>

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.

PE37820LF CAD Drawing

## SHV Plug to HN Female Cable Using RG213 Coax , LF Solder

		REVISION				
ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY	
	A	INITIAL RELEASE	12/14/2022		AGANWANI	



NOTES:

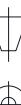
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

1

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FROM EACH CONNECTOR.  
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 <p><b>PASTERNACK®</b> an INFINITI® brand</p>		 		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>	
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				NONE	1 OF 1
<p><b>ACTIONS</b></p> <p><math>\pm .1732</math></p> <p>ANGLES:</p> <p><math>\pm 1.25 [25] / -0</math></p> <p><math>\pm 2 [51] / -0</math></p> <p><math>\pm 4 [102] / -0</math></p> <p><math>\pm 6.1132] / -0</math></p> <p><math>\pm 5\% / -0</math></p>		<p><b>DESCRIPTION</b></p> <p>SHV Plug to HN Female Cable Using RG213 Coax , LF Solder</p>		<p>ITEM NO.</p> <p>PE37820LF</p>	
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