

## SMA Male to SMA Male Cable Using PE-SR402FL Coax with HeatShrink, LF Solder



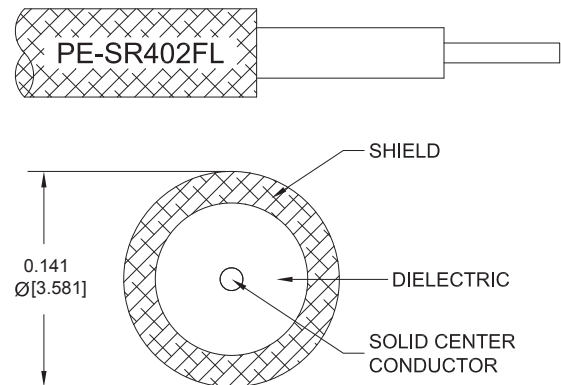
### PE3W00121LF/HS

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00121LF/HS SMA male to SMA male cable using PE-SR402FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W00121LF/HS SMA male to SMA male cable assembly operates to 18 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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
PE3W00121LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.163	0.269	0.418	0.65	dB/ft	
			0.4	0.54	0.89	1.38	2.14	dB/m	
PE3W00121LF/HS-6	6 In	Insertion Loss (Typ.)	0.26	0.29	0.34	0.41	0.53	dB	0.027
PE3W00121LF/HS-9	9 In	Insertion Loss (Typ.)	0.29	0.33	0.41	0.52	0.69	dB	0.033
PE3W00121LF/HS-12	12 In	Insertion Loss (Typ.)	0.32	0.37	0.47	0.62	0.85	dB	0.039
PE3W00121LF/HS-18	18 In	Insertion Loss (Typ.)	0.38	0.45	0.61	0.83	1.18	dB	0.052
PE3W00121LF/HS-24	24 In	Insertion Loss (Typ.)	0.44	0.53	0.74	1.04	1.5	dB	0.065

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:	0.039 pounds
Additional Weight per Inch:	0.00209 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.014 lbs [6.35 g]

**Cable**

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

**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
Mating Cycles	500	500
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	3 in-lbs 0.34 Nm
Seal Gasket Material	Silicone	Silicone

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### PE3W00121LF/HS

#### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

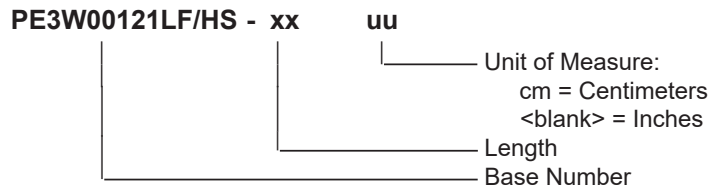
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3W00121LF/HS-12 = 12 inches long cable  
PE3W00121LF/HS-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using PE-SR402FL 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 PE-SR402FL Coax with HeatShrink, LF Solder PE3W00121LF/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-pe-sr402fl-with-heatshrink-lf-solder-pe3w00121lf-hs-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.

# PE3W00121LF/HS CAD Drawing

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