



## SMA Male to 3.5mm Male Cable Using PE-SR402FLJ Coax with HeatShrink, LF Solder

### RF Cable Assemblies Technical Data Sheet

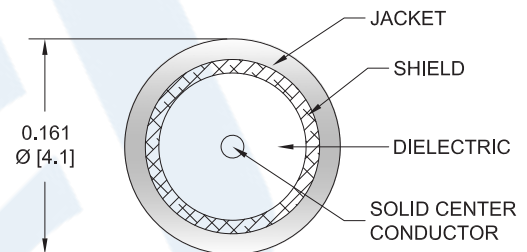
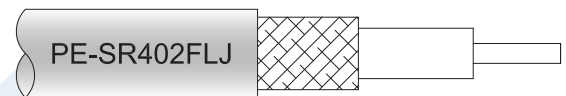
**PE3W07633LF/HS**

#### Configuration

- Connector 1: SMA Male
- Connector 2: 3.5mm Male
- Cable Type: PE-SR402FLJ

#### Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W07633LF/HS SMA male to 3.5mm male cable using PE-SR402FLJ 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 3.5mm cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W07633LF/HS SMA male to 3.5mm 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.

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 3.5mm Male Cable Using PE-SR402FLJ Coax with HeatShrink, LF Solder PE3W07633LF/HS](#)



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**PE3W07633LF/HS**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.23 [27]		$\Omega$ /1000ft [ $\Omega$ /Km]
Operating Voltage (AC)			500	Vrms

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.125	0.173	0.295	0.448	0.681	dB/ft
	0.41	0.57	0.97	1.47	2.23	dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Weight 0.052 lbs [23.59 g]

**Cable**

Cable Type PE-SR402FLJ  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Tinned Copper Braid  
 Jacket Material FEP, Black  
 Jacket Diameter 0.161 in [4.09 mm]

One Time Minimum Bend Radius 0.315 in [8 mm]

Repeated Minimum Bend Radius 1.575 in [40.01 mm]

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## RF Cable Assemblies Technical Data Sheet

**PE3W07633LF/HS**

### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	3.5mm Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PCTFE
Body Material and Plating	Stainless Steel, Gold	Passivated Stainless Steel
Body Plating Specification	10 µin minimum	SAE-AMS-2700
Coupling Nut Material and Plating	Brass, Nickel	Passivated Stainless Steel
Coupling Nut Plating Specification	100 µin minimum	SAE-AMS-2700
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	8 in-lbs [0.9 Nm]

### Environmental Specifications

#### Temperature

Operating Range -65 to +150 deg C

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

### Plotted and Other Data

Notes:

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SMA Male to 3.5mm Male Cable Using PE-SR402FLJ Coax with HeatShrink, LF Solder

**RF Cable Assemblies Technical Data Sheet**

**PE3W07633LF/HS**

**How to Order**

Part Number Configuration:

**PE3W07633LF/HS - xx**

**uu**

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

Example: PE3W07633LF/HS-12 = 12 inches long cable  
PE3W07633LF/HS-100cm = 100 cm long cable

SMA Male to 3.5mm Male Cable Using PE-SR402FLJ 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.

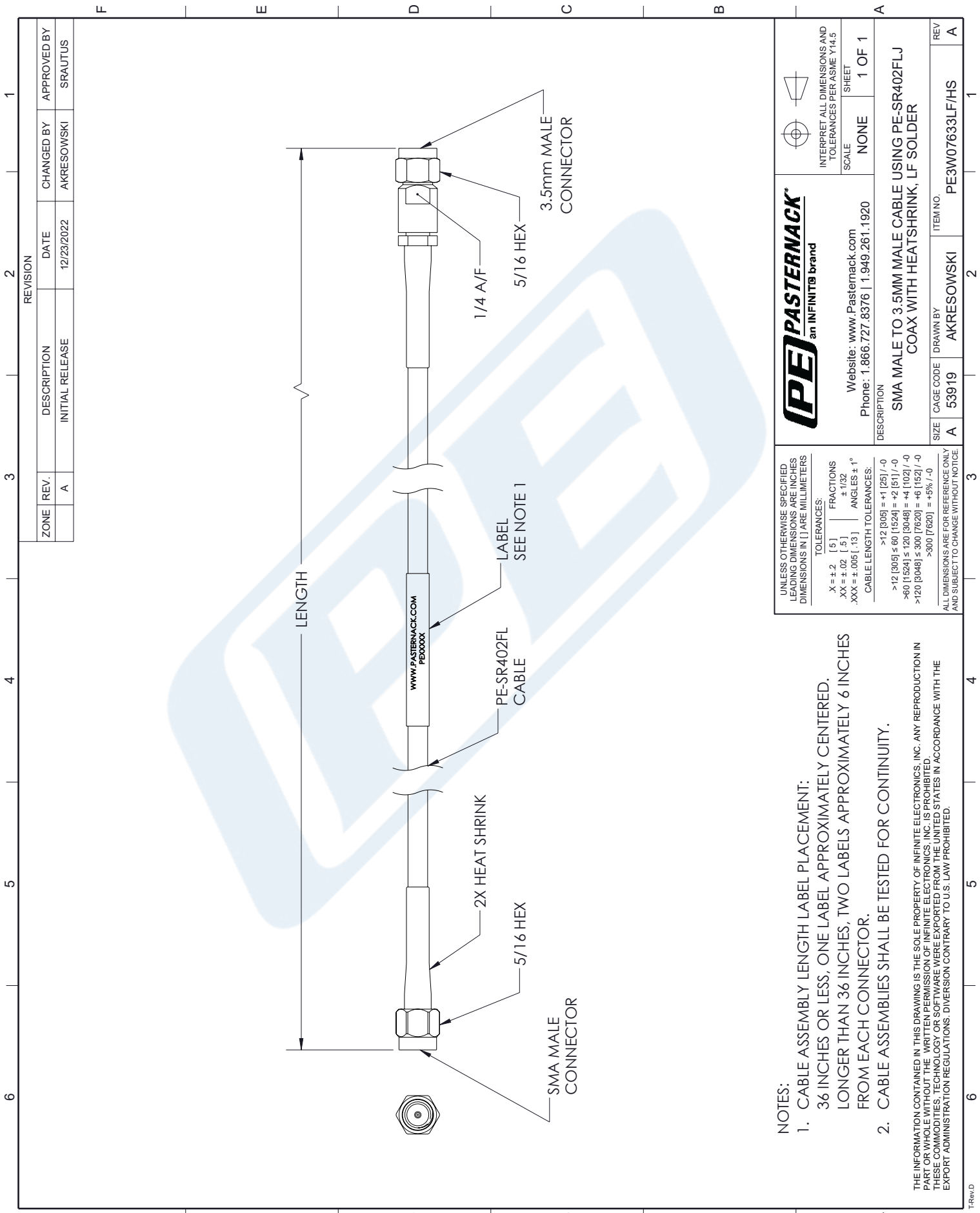
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URL: <https://www.pasternack.com/sma-male-to-3.5mm-male-cable-using-pe-sr402flj-with-heatshrink-lf-solder-pe3w07633lf-hs-p.aspx>

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.

# PE3W07633LF/HS CAD Drawing

SMA Male to 3.5mm Male Cable Using PE-SR402FLJ Coax with HeatShrink, LF Solder



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	12/23/2022	AKRESOWSKI	STRAUTUS

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [ .5 ]     FRACTIONS ±.1/32</p> <p>.XX = ±.02 [ .3 ]     ANGLES ± 1°</p> <p>.XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH TOLERANCES:</p> <p>&gt;12 [305] = +1 [25] / -0</p> <p>&gt;60 [1524] = +2 [51] / -0</p> <p>&gt;60 [1524] ≤ 120 [3048] = +4 [102] / -0</p> <p>&gt;120 [3048] ≤ 300 [7620] = +6 [152] / -0</p> <p>&gt;300 [7620] = +5% / -0</p> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE</p>		<p><b>PE PASTERNAK</b> an INFINITO brand</p> <p>Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a></p> <p>Phone: 1.866.727.8376   1.949.261.1920</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SHEET 1 OF 1</p>
<p>DESCRIPTION</p> <p>SMA MALE TO 3.5MM MALE CABLE USING PE-SR402FLJ COAX WITH HEATSHRINK, LF SOLDER</p>				
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	
A	53919	AKRESOWSKI	PE3W07633LF/HS	

- NOTES:
- 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.
  - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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