



## Plenum Rated SMA Female to SMA Male Low PIM Cable Using SPP-250-LLPL Coax , LF Solder in 100CM

### RF Cable Assemblies Technical Data Sheet

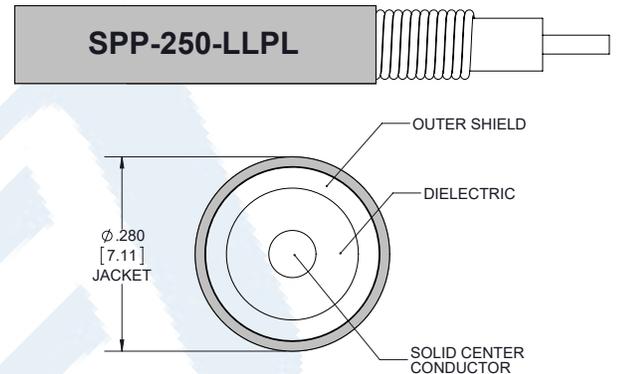
### PE3W13535LF-100CM

#### Configuration

- Connector 1: SMA Female
- Connector 2: SMA Male
- Cable Type: SPP-250-LLPL

#### Features

- Max Frequency 5.8 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

#### Description

Pasternack's PE3W13535LF-100CM SMA female to SMA male cable using SPP-250-LLPL coax is part of our full line of RF components available for same-day shipping. Pasternack's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack SMA to SMA cable assembly has a female to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3W13535LF-100CM SMA female to SMA male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -155 dBc.

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		5.8	GHz
VSWR			1.5:1	
Velocity of Propagation		76		%
RF Shielding	100			dB
Passive Intermodulation			-155	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Plenum Rated SMA Female to SMA Male Low PIM Cable Using SPP-250-LLPL Coax , LF Solder in 100CM PE3W13535LF-100CM](#)



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Capacitance	27 [88.58]	pF/ft [pF/m]
Inductance	0.067 [0.22]	uH/ft [uH/m]
DC Resistance Inner Conductor	3 [9.84]	Ω/1000ft [Ω/Km]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.11	0.19	0.26	0.44	0.68	dB/ft
	0.36	0.62	0.85	1.44	2.23	dB/m

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of  $0.04 * \text{SQRT}(\text{FGHz})$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length*	39.37 in [100 cm]
Weight	0.203 lbs [92.08 g]

#### Cable

Cable Type	SPP-250-LLPL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor Material and Plating	Copper
Jacket Material	FEP, Blue
Jacket Diameter	0.28 in [7.11 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

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### Connectors

Description	Connector 1	Connector 2
Type	SMA Female	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating		Brass, Tri-Metal

### Environmental Specifications

#### Temperature

Operating Range -55 to +165 deg C

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

### Plotted and Other Data

Notes:

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**PE3W13535LF-100CM**

**How to Order**

Part Number Configuration:

**PE3W13535LF - xx uu**

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

Example: PE3W13535LF-12 = 12 inches long cable  
PE3W13535LF-100cm = 100 cm long cable

Plenum Rated SMA Female to SMA Male Low PIM Cable Using SPP-250-LLPL Coax , LF Solder in 100CM 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: [Plenum Rated SMA Female to SMA Male Low PIM Cable Using SPP-250-LLPL Coax , LF Solder in 100CM PE3W13535LF-100CM](https://www.pasternack.com/plenum-rated-sma-female-to-sma-male-low-pim-cable-using-spp-250-llpl-lf-solder-pe3w13535lf-100cm)

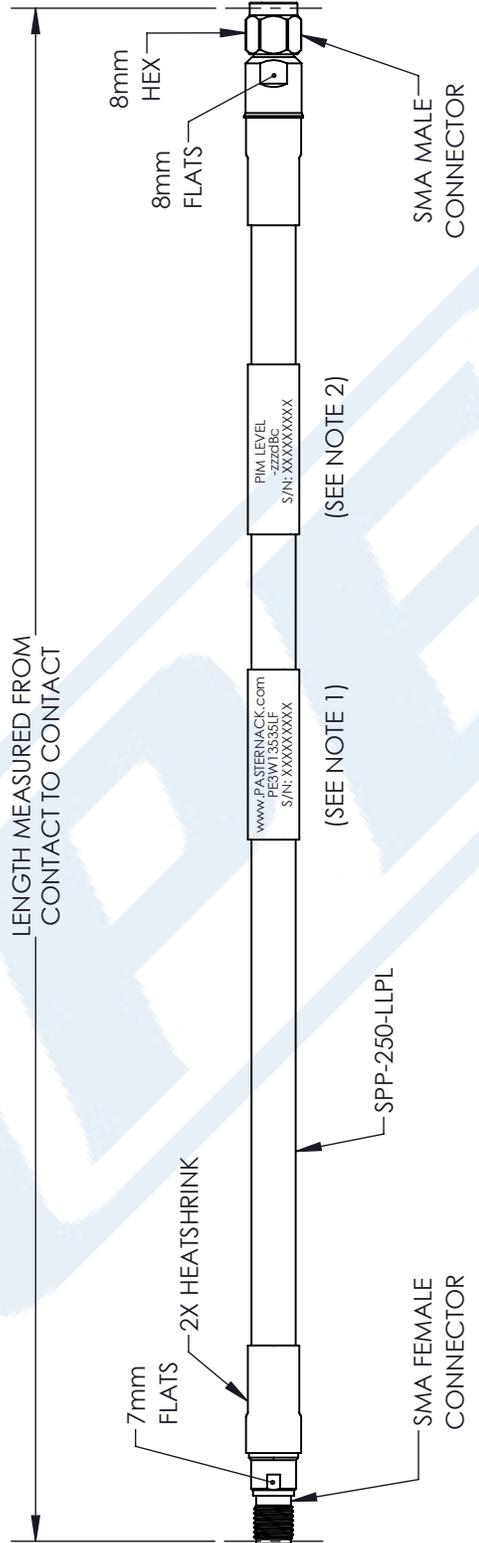
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# PE3W13535LF-100CM CAD Drawing

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REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	08/10/2022
		APPROVED AGANWANI



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

**TOLERANCES:**

.X = ±.2 [ .08]	FRACTIONS ±.1/32
.XX = ±.02 [ .51]	ANGLES ± 1°
.XXX = ±.005 [ .13]	

**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% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**THIRD-ANGLE PROJECTION**

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SHEET 1 OF 1

SCALE N/A

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E-mail: sales@pasternack.com

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	BPUCHASKI	PE3W13535LF	A

**NOTES:**

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM END OF CONNECTOR.
2. 6" FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.

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