

## Plenum Rated SMA Female to SMA Male Low PIM Cable Using SPP-250-LLPL Coax , LF Solder in 36 Inch

### PE3W13535LF-36

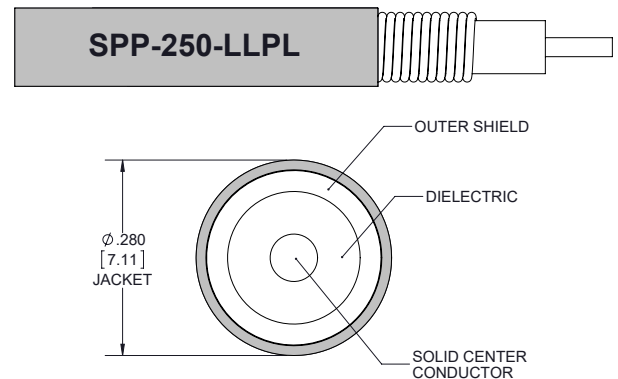


#### Configuration

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

#### 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-36 SMA female to SMA male 36 inch 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-36 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          |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |              |         |              |
| Capacitance                                |         | 27 [88.58]   |         | pF/ft [pF/m] |
| Inductance                                 |         | 0.067 [0.22] |         | uH/ft [uH/m] |

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#### Electrical Specifications

| Description                   | Minimum | Typical  | Maximum | Units                 |
|-------------------------------|---------|----------|---------|-----------------------|
| DC Resistance Inner Conductor |         | 3 [9.84] |         | Ohms/1000ft [Ohms/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.) | 0.1  | 0.18 | 0.25 | 0.41 | 0.64 | dB    |

#### 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\*SQRT(FGHz) dB per connector.

#### Mechanical Specifications

##### Cable Assembly

|                |                     |
|----------------|---------------------|
| Length         | 36 in [914.4 mm]    |
| Width/Diameter | .5 in [12.7 mm]     |
| Weight         | 0.182 lbs [82.55 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 1 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] |

#### Connectors

| Description                          | Connector 1              | Connector 2      |
|--------------------------------------|--------------------------|------------------|
| Type                                 | SMA Female               | SMA Male         |
| Impedance                            | 50 Ohms                  | 50 Ohms          |
| Configuration                        | Straight                 | Straight         |
| 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 |

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#### Environmental Specifications

Operating Range Temperature

-55 to +165 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### 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 36 Inch 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 36 Inch PE3W13535LF-36](#)

URL: <https://www.pasternack.com/plenum-rated-sma-female-to-sma-male-low-pim-cable-using-spp-250-llpl-lf-solder-pe3w13535lf-36-p.aspx>

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PE3W13535LF-36 CAD Drawing

Plenum Rated SMA Female to SMA Male Low PIM Cable Using SPP-250-LLPL Coax , LF Solder in 36 Inch

