

Plenum 2.2-5 Male to SMA Male Low PIM Cable 36 Inch Length Using SPP-250-LLPL Coax



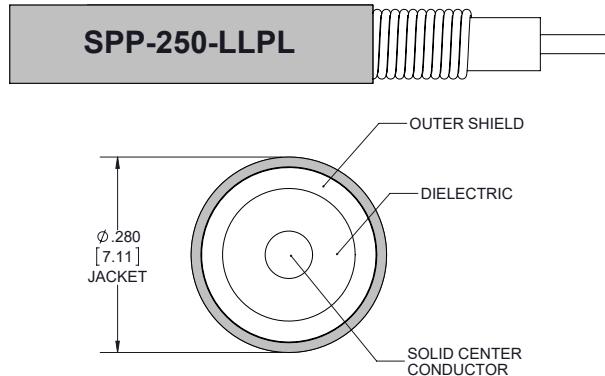
PE3C9931-36

Configuration

- Connector 1: 2.2-5 Male
- Connector 2: SMA Male
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

Features

- Max Frequency 6 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 PE3C9931-36 2.2-5 male 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 2.2-5 to SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C9931-36 2.2-5 male to SMA male cable assembly operates to 6 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 | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| 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] |
| DC Resistance Inner Conductor | 3 [9.84] | | | Ohms/1000ft [Ohms/Km] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 500 | 1000 | 2500 | 6000 | MHz | |
| PE3C9931 | Custom Lengths Available | Insertion Loss (Typ.) | 0.039 | 0.054 | 0.093 | 0.148 | dB/ft | |
| | | | 0.13 | 0.18 | 0.31 | 0.49 | dB/m | |
| PE3C9931-12 | 12 In | Insertion Loss (Typ.) | 0.24 | 0.26 | 0.3 | 0.35 | dB | 0.14 |
| PE3C9931-24 | 24 In | Insertion Loss (Typ.) | 0.28 | 0.31 | 0.39 | 0.5 | dB | 0.211 |
| PE3C9931-36 | 36 In | Insertion Loss (Typ.) | 0.32 | 0.37 | 0.48 | 0.65 | dB | 0.281 |
| PE3C9931-60 | 60 In | Insertion Loss (Typ.) | 0.4 | 0.47 | 0.67 | 0.94 | dB | 0.421 |
| PE3C9931-50CM | 50 CM | Insertion Loss (Typ.) | 0.27 | 0.29 | 0.36 | 0.45 | dB | 0.185 |

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: 0.14 pounds

Additional Weight per Inch: 0.00584 pounds

Mechanical Specifications

Cable Assembly

| | |
|----------------|----------------------|
| Length | 36 in [914.4 mm] |
| Width/Diameter | .5 in [12.7 mm] |
| Weight | 0.281 lbs [127.46 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] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|------------------|------------------|
| Type | 2.2-5 Male | SMA Male |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

Environmental Specifications

Operating Range Temperature -40 to +155 deg C

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

Plotted and Other Data

Notes:

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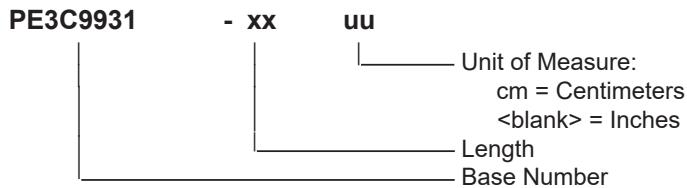


PE3C9931-36

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C9931-12 = 12 inches long cable
PE3C9931-100cm = 100 cm long cable

Plenum 2.2-5 Male to SMA Male Low PIM Cable 36 Inch Length Using SPP-250-LLPL Coax 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 2.2-5 Male to SMA Male Low PIM Cable 36 Inch Length Using SPP-250-LLPL Coax PE3C9931-36](#)

URL: <https://www.pasternack.com/plenum-2.2-5-male-to-sma-male-low-pim-cable-36-inch-length-using-spp-250-llpl-pe3c9931-36-p.aspx>

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PE3C9931-36 CAD Drawing

Plenum 2.2-5 Male to SMA Male Low PIM Cable 36 Inch Length Using SPP-250-LLPL Coax

