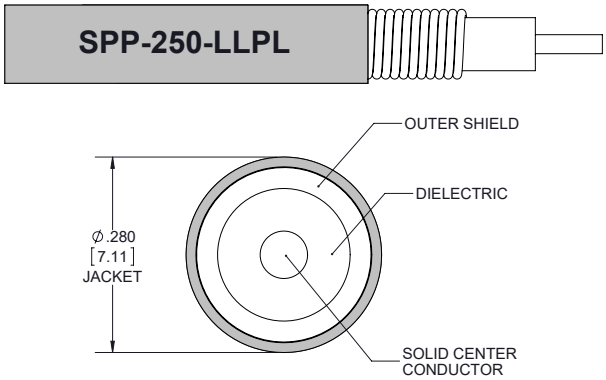
# Plenum SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax , LF Solder



## PE3C5894-48

### Configuration

- Connector 1:  SMA Male
- Connector 2:  SMA Male Right Angle
- 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
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)

### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing

### Description

Pasternack's PE3C5894-48 SMA male to SMA male right angle 48 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 male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C5894-48 SMA male 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. The right angle SMA interface on the SPP-250-LLPL cable allows for easier connections in tight spaces.

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 | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 100 | | | dB |


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+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

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## PE3C5894-48

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Passive Intermodulation<br>IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz | | | -155 | dBc |
| 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

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.45 | 0.7 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Max.) | 0.21 | 0.26 | 0.31 | 0.51 | 0.79 | dB |

Electrical Specification Notes:
The insertion loss data above is based on the performance specifications of the coax cable used in this assembly. The insertion loss includes an estimated insertion loss of 0.04*SQRT(FGHz) dB maximum per connector.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Weight | 0.33 lbs [149.69 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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# Plenum SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax , LF Solder



## PE3C5894-48

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMA Male Right Angle |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Right Angle |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| 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 | -55 to +165 deg C |

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

### Plotted and Other Data

Notes:


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Plenum SMA Male to SMA Male Right Angle Low PIM Cable
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## PE3C5894-48

**Typical Performance Data**





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# Plenum SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax , LF Solder



## PE3C5894-48

### How to Order

Part Number Configuration: **PE3C5894 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C5894 — Base Number

Example: PE3C5894-12 = 12 inches long cable
PE3C5894-100cm = 100 cm long cable

Plenum SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax , 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: Plenum SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax , LF Solder PE3C5894-48

URL: https://www.pasternack.com/sma-male-sma-male-spp250llpl-cable-assembly-pe3c5894-48-p.aspx

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# PE3C5894-48 CAD Drawing

Plenum SMA Male to SMA Male Right Angle Low PIM Cable 48 Inch Length Using SPP-250-LLPL Coax , LF Solder






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