



SMA Male to SMA Male Cable 18 Inch Length Using PE-SR047FL Coax, RoHS

RF Cable Assemblies Technical Data Sheet

PE34186LF-18

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: PE-SR047FL

Features

- Max Frequency 12.4 GHz

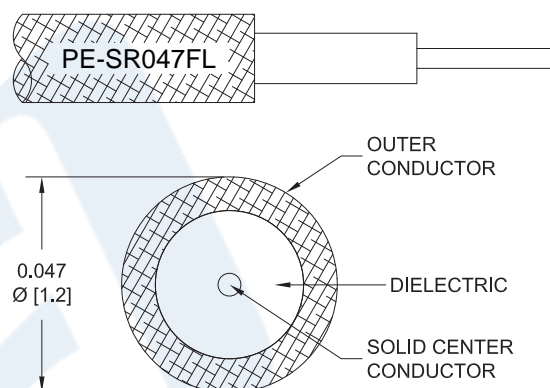
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE34186LF-18 SMA male to SMA male 18 inch cable using PE-SR047FL 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 SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR047FL coax. The PE34186LF-18 SMA male to SMA male cable assembly operates to 12.4 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 SMA Male Cable 18 Inch Length Using PE-SR047FL Coax, RoHS PE34186LF-18](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 12.4 | GHz |
| VSWR | | | 1.4:1 | |
| Capacitance | | 32 [104.99] | | pF/ft [pF/m] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-------|------|-------|-------|-------|
| Frequency | 1 | 3 | 5 | 10 | 12.4 | GHz |
| Insertion Loss (Typ.) | 0.74 | 1.174 | 1.49 | 2.119 | 2.364 | dB |

Mechanical Specifications

Cable Assembly

| | |
|----------|--------------------|
| Length* | 18 in [457.2 mm] |
| Diameter | 0.312 in [7.92 mm] |
| Weight | 0.017 lbs [7.71 g] |

Cable

| | |
|--------------------------------------|---------------------------|
| Cable Type | PE-SR047FL |
| 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 Diameter | 0.047 in [1.19 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|------------------------|
| Type | SMA Male | SMA Male |
| Specification | MIL-STD-348 | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 50µ in. minimum | 50µ in. minimum |
| Dielectric Type | Teflon | Teflon |
| Body Material and Plating | Brass, Gold | Brass, Gold |
| Body Plating Specification | 50µ in. minimum | 50µ in. minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | 50µ in. minimum | 50µ in. minimum |
| Hex Size | 5/16 in | 5/16 in |
| Torque | 5 in-lbs [0.57 Nm] | 5 in-lbs [0.57 Nm] |

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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How to Order

Part Number Configuration:

PE34186LF

- xx

uu

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

Example: PE34186LF-12 = 12 inches long cable
PE34186LF-100cm = 100 cm long cable

SMA Male to SMA Male Cable 18 Inch Length Using PE-SR047FL Coax, RoHS 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: [SMA Male to SMA Male Cable 18 Inch Length Using PE-SR047FL Coax, RoHS PE34186LF-18](https://www.pasternack.com/sma-male-sma-male-pe-sr047fl-cable-assembly-pe34186lf-18-p.aspx)

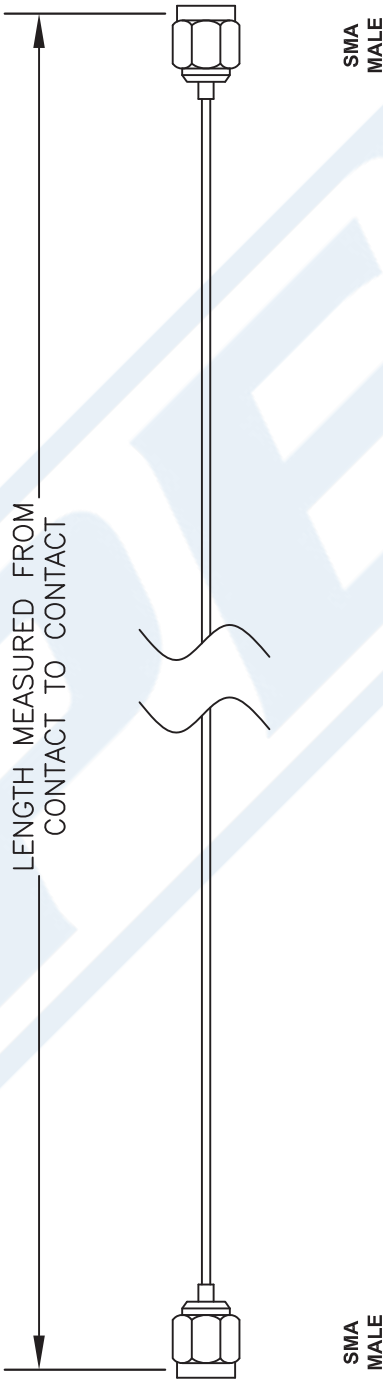
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE34186LF-18 CAD Drawing

SMA Male to SMA Male Cable 18 Inch Length Using PE-SR047FL Coax, RoHS

| Standard Lengths | |
|------------------|-------------------------|
| -12 | 12" |
| -24 | 24" |
| -36 | 36" |
| -48 | 48" |
| -60 | 60" |
| -XXX | Custom Length in Inches |



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

DWG TITLE
PE34186LF-XX

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REV. A
FSCM NO. 53919

CAD FILE 012508

SCALE N/A

SIZE A

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