



## SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Using PE-047SR Coax

### RF Cable Assemblies Technical Data Sheet

PE35118

#### Configuration

- Connector 1: SMA Female 4 Hole Flange
- Connector 2: SMA Female 4 Hole Flange
- Cable Type: PE-047SR

#### Features

- Max Frequency 18 GHz

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE35118 SMA female 4 hole flange to SMA female 4 hole flange cable using PE-047SR coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE35118 SMA female to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 4 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		18	GHz
VSWR			1.4:1	

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.8	dB/ft
	1.31	1.64	2.46	3.94	5.91	dB/m

Frequency GHz

Electrical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Using PE-047SR Coax PE35118](#)



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Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.2dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

Diameter	0.5 in [12.7 mm]
Weight	0.021 lbs [9.53 g]

##### Cable

Cable Type	PE-047SR
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	Copper

One Time Minimum Bend Radius	0.5 in [12.7 mm]
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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Female 4 Hole Flange	SMA Female 4 Hole Flange
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	MIL-G-45204, Type II, Class 2	MIL-G-45204, Type II, Class 2
Dielectric Type	Teflon	Teflon
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

#### Plotted and Other Data

##### Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Using PE-047SR Coax PE35118](#)



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#### How to Order

Part Number Configuration:

PE35118

- xx

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

Example: PE35118-12 = 12 inches long cable  
PE35118-100cm = 100 cm long cable

SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Using PE-047SR 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.

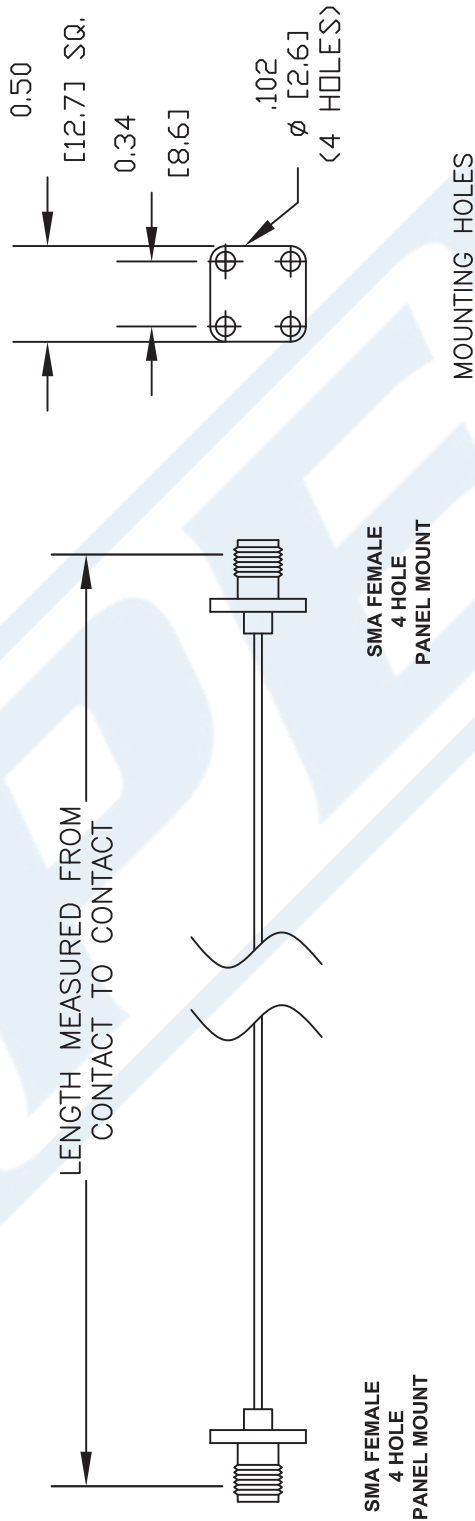
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Using PE-047SR Coax PE35118](https://www.pasternack.com/sma-female-sma-female-pe-047sr-cable-assembly-pe35118-p.aspx)

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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.

# PE35118 CAD Drawing

SMA Female 4 Hole Flange to SMA Female 4 Hole Flange Cable Using PE-047SR Coax



- 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

PE35118

REV. A

FSCM NO. 53919

CAD FILE 020608

SCALE N/A

SIZE A

127

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