



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

TECHNICAL DATA SHEET

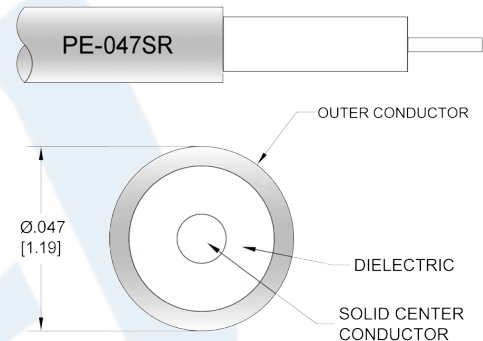
PE3C8119

Configuration

- Connector 1: Mini SMP Female
- Connector 2: SMA Female 4 Hole Flange
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C8119 Mini SMP female 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 Mini SMP to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3C8119 Mini SMP 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to SMA Female 4 Hole Flange Cable Using PE-047SR Coax PE3C8119](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C8119	Custom Lengths Available	Insertion Loss (Typ.)	0.4	0.5	0.75	1.2	1.78	dB/ft	
			1.32	1.65	2.47	3.94	5.84	dB/m	
PE3C8119-3	3 inch	Insertion Loss (Typ.)	0.31	0.34	0.4	0.51	0.66	dB	0.015
PE3C8119-6	6 inch	Insertion Loss (Typ.)	0.41	0.46	0.59	0.81	1.1	dB	0.016
PE3C8119-12	12 inch	Insertion Loss (Typ.)	0.61	0.71	0.96	1.41	1.99	dB	0.018
PE3C8119-18	18 inch	Insertion Loss (Typ.)	0.81	0.96	1.34	2.01	2.88	dB	0.021
PE3C8119-60	60 inch	Insertion Loss (Typ.)	2.21	2.71	3.96	6.21	9.11	dB	0.035

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:	0.04 x sqrt(fGHz) dB
Loss due to Connector 2:	0.17 dB
Base Weight:	0.018 pounds
Additional Weight per Inch:	0.00034 pounds

Mechanical Specifications

Cable Assembly

Weight 0.018 lbs [8.16 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
Outer Conductor Material and Plating	Copper

Repeated Minimum Bend Radius 0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female Push-On	SMA Female 4 Hole Flange Threaded
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Stainless Steel, Gold over Nickel
Body Plating Specification		50 μ in minimum

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to SMA Female 4 Hole Flange Cable Using PE-047SR Coax PE3C8119](#)



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

TECHNICAL DATA SHEET

PE3C8119

How to Order

Part Number Configuration:

PE3C8119

- **xx**

uu

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

Example: PE3C8119-12 = 12 inches long cable
PE3C8119-100cm = 100 cm long cable

Mini SMP Female 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.

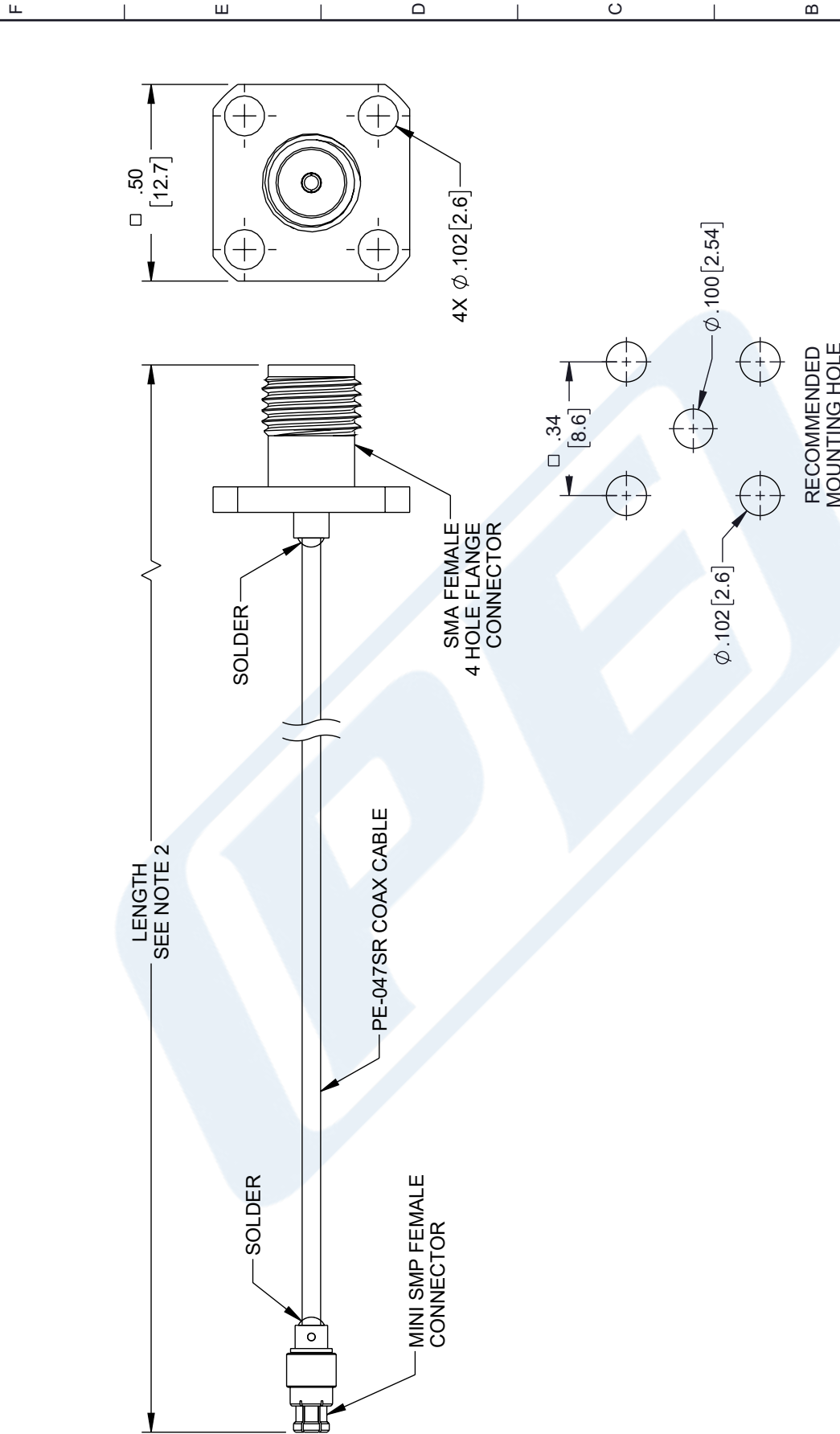
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URL: <https://www.pasternack.com/mini-smp-female-to-sma-female-4-hole-flange-cable-using-pe-047sr-pe3c8119-p.aspx>

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.

PE3C8119 CAD Drawing

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



NOTES:

1. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± .005 [0.13]
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305] = ±.1 [2.5] / -0	
>12 [305] ≤ 60 [1524] = ±.2 [5] / -0	
>60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0	
>120 [3048] ≤ 300 [7620] = ±.6 [15.2] / -0	
>300 [7620] = ±.5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY. ALL DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	



Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

MINI SMP FEMALE TO SMA FEMALE 4 HOLE FLANGE CABLE
USING PE-047SR COAX

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 1 OF 1

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE3C8119	A