



SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax

TECHNICAL DATA SHEET

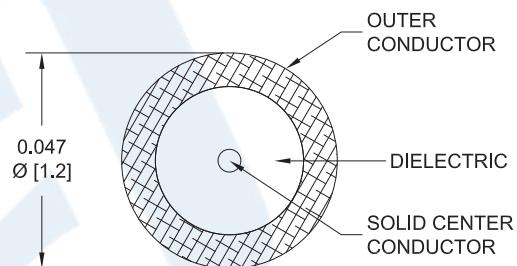
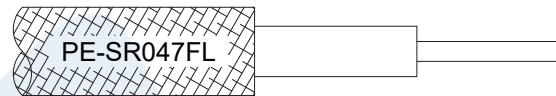
PE3W01125

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR047FL
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01125 SMP female right angle to SMP female right angle 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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR047FL coax. The PE3W01125 SMP female to SMP female cable assembly operates to 18 GHz. The right angle SMP interfaces on the PE-SR047FL cable allow 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax PE3W01125](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		32 [104.99]		pF/ft [pF/m]
DC Resistance Inner Conductor		207 [679.13]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		8 [26.25]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	##### MHz		
PE3W01125	Custom Lengths Available	Insertion Loss (Typ.)	0.36	0.5	0.8	1.19	1.8	dB/ft	
			1.19	1.65	2.63	3.91	5.91	dB/m	
PE3W01125-6	6 inch	Insertion Loss (Typ.)	0.58	0.65	0.8	1	1.3	dB	0.004
PE3W01125-9	9 inch	Insertion Loss (Typ.)	0.67	0.78	1	1.3	1.75	dB	0.005
PE3W01125-12	12 inch	Insertion Loss (Typ.)	0.76	0.9	1.2	1.59	2.2	dB	0.005
PE3W01125-24	18 inch	Insertion Loss (Typ.)	1.12	1.4	2	2.78	4	dB	0.008
PE3W01125-36	24 inch	Insertion Loss (Typ.)	1.48	1.9	2.8	3.97	5.8	dB	0.011

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: 0.2 dB

Loss due to Connector 2: 0.2 dB

Base Weight: 0.005 pounds

Additional Weight per Inch: 0.00025 pounds

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Weight

0.005 lbs [2.27 g]

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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
Outer Conductor Material and Plating	Tinned Copper Braid

Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle Push-On	SMP Female Right Angle Push-On
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	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204

Environmental Specifications

Temperature

Operating Range

-40 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W01125- **xx****uu**

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

Example: PE3W01125-12 = 12 inches long cable
PE3W01125-100cm = 100 cm long cable

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL 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: [SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax PE3W01125](#)

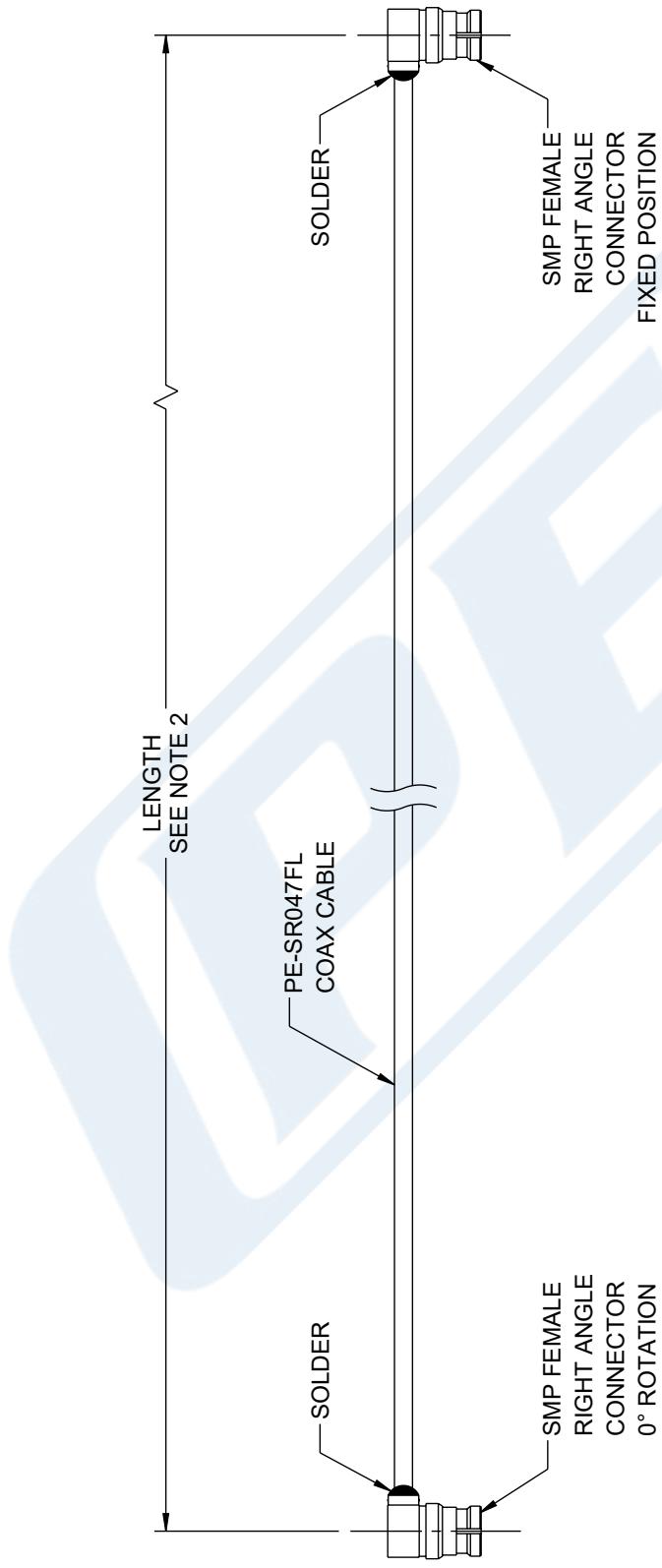
URL: <https://www.pasternack.com/smp-female-smp-female-pe-sr047fl-cable-assembly-pe3w01125-p.aspx>

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.

PE3W01125 CAD Drawing

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/16/2023	HBKKE	AGANWANI



NOTES:

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

<p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: $X = \pm 0.2 [0.5]$ FRACTIONS $XX = \pm 0.2 [0.5]$ ANGLES $\pm 1^\circ$ $XXX = \pm 0.05 [0.13]$ $\pm 1/32$</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 1.949.261.1920</p>	
		SCALE	1 OF 1
<p>PASTERNAK® an INFINITI® brand</p> <p>DESCRIPTION</p> <p>SMP FEMALE RIGHT ANGLE TO SMP FEMALE RIGHT ANGLE CABLE USING PE-SR04/F/F COAX</p>			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3W01125
REV A			

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