

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax with 270 Deg. Clock



RF Cable Assemblies Technical Data Sheet

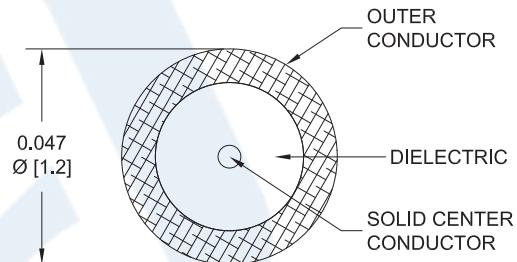
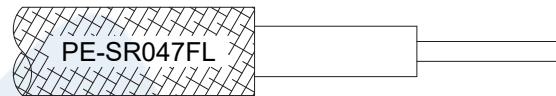
PE3W01125/SP

Configuration

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

Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01125/SP 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/SP 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 with 270 Deg. Clock PE3W01125/SP](#)



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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

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.36	0.505	0.807	1.196	1.808	dB/ft
	1.18	1.66	2.65	3.92	5.93	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.05 \times \text{SQRT}(f\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.005 lbs [2.27 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
Outer Conductor Material and Plating Tinned Copper Braid

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Connectors

Description	Connector 1	Connector 2
Type	SMP Female Right Angle	SMP Female Right Angle
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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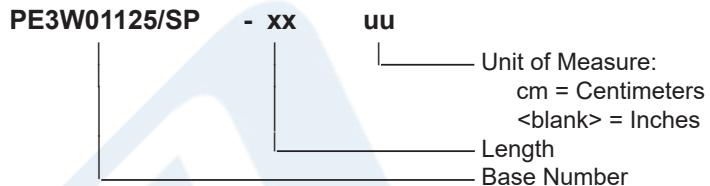
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How to Order

Part Number Configuration:



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

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax with 270 Deg. Clock 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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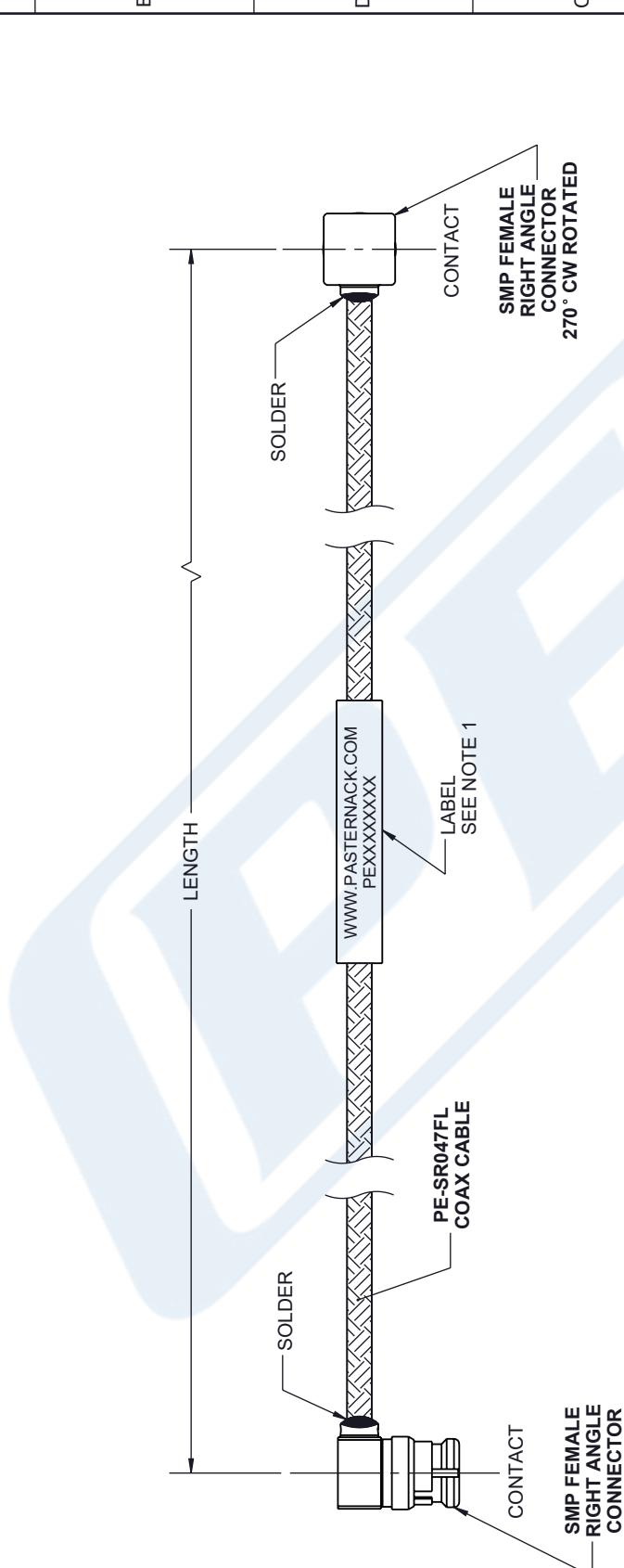
URL: <https://www.pasternack.com/smp-female-right-angle-to-smp-female-cable-using-pe-sr047fl-with-270-deg.-clock-pe3w01125-sp-p.aspx>

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/SP CAD Drawing

SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax with 270 Deg. Clock

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	12/11/2022	KDANG	AGANWANI



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		SCALE NONE	REV A
TOLERANCES: $X = \pm 2 [5]$ FRACTIONS $XXX = \pm .02 [5]$ $\pm 1/32$ $XXX = \pm .005 [13]$ ANGLES $\pm 1^\circ$ CABLE LENGTH TOLERANCES: $\gt12 [305] \leq 12 [324] = \pm [51] / -0$ $\gt60 [1524] \leq 120 [3048] = \pm [4] [102] / -0$ $\gt120 [3048] \leq 300 [7620] = \pm [152] / -0$ $\gt300 [7620] = \pm [5] / -0$	DESCRIPTION Website: www.Pasternack.com Phone: 1.866.727.8336 1.949.261.1920	ITEM NO. PE3W01125/SP	
ALL DIMENSIONS ARE INCHES AND SUBJECT TO CHANGE WITHOUT NOTICE.	SIZE A	CAGE CODE 53919	DRAWN BY KD DANG