



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

TECHNICAL DATA SHEET

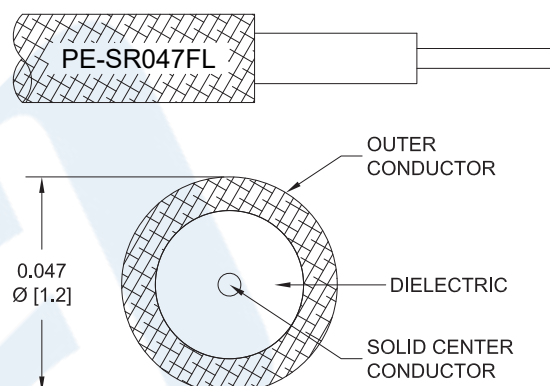
PE3W03818

Configuration

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

Features

- Max Frequency 8 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03818 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 PE3W03818 SMP female to SMP female cable assembly operates to 8 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: [Rounded Body SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR-047FL Coax PE3W03818](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.33:1	
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	500	1000	2000	4000	8000	MHz	
PE3W03818	Custom Lengths Available	Insertion Loss (Typ.)	0.25	0.36	0.48	0.73	1.11	dB/ft	
			0.83	1.19	1.58	2.4	3.65	dB/m	
PE3W03818-6	6 inch	Insertion Loss (Typ.)	0.53	0.58	0.64	0.77	0.96	dB	0.012
PE3W03818-9	9 inch	Insertion Loss (Typ.)	0.59	0.67	0.76	0.95	1.24	dB	0.013
PE3W03818-12	12 inch	Insertion Loss (Typ.)	0.65	0.76	0.88	1.13	1.51	dB	0.013
PE3W03818-24	24 inch	Insertion Loss (Typ.)	0.9	1.12	1.36	1.86	2.62	dB	0.016
PE3W03818-36	36 inch	Insertion Loss (Typ.)	1.15	1.48	1.84	2.59	3.73	dB	0.019

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:	0.013 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 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight	0.013 lbs [5.9 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-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-DTL-45204	MIL-DTL-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-DTL-45204	MIL-DTL-45204

Environmental Specifications

Temperature

Operating Range	-40 to +100 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W03818

- **xx**

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

Example: PE3W03818-12 = 12 inches long cable
PE3W03818-100cm = 100 cm long cable

Rounded Body 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: [Rounded Body SMP Female Right Angle to SMP Female Right Angle Cable Using PE-SR047FL Coax PE3W03818](#)

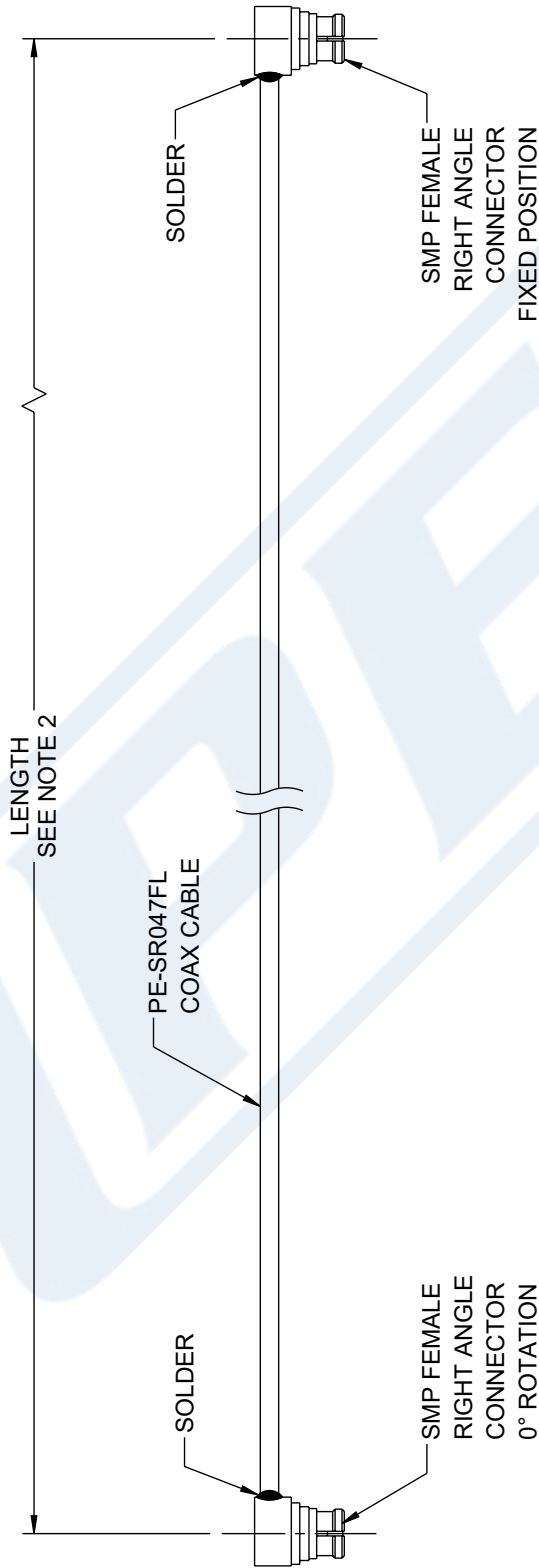
URL: <https://www.pasternack.com/smp-female-smp-female-pe-sr047fl-cable-assembly-pe3w03818-p.aspx>

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.

PE3W03818 CAD Drawing

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

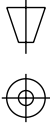
REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	10/16/2023
		CHANGED BY	HBAKKE
		APPROVED	AGANWANI



NOTES:

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

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 PASTERNAK an INFINIT@ brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	NONE
DESCRIPTION		SHEET	1 OF 1
ROUNDED BODY SMP FEMALE RIGHT ANGLE TO SMP FEMALE RIGHT ANGLE CABLE USING PE-SR047FL COAX		REV	
SIZE	A	CAGE CODE	53919
DRAWN BY	HBAKKE	ITEM NO.	PE3W03818
		1	

UNLESS OTHERWISE SPECIFIED, LEADER DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X = ±.2 [5]	XX = ±.02 [0.5]
XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
>12 [305] ≤ 50 [125]	±.001 [-0]
>50 [125] ≤ 100 [254]	±.002 [-0]
>100 [254] ≤ 300 [7620]	±.004 [-0]
>300 [7620]	±.008 [-0]