



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

TECHNICAL DATA SHEET

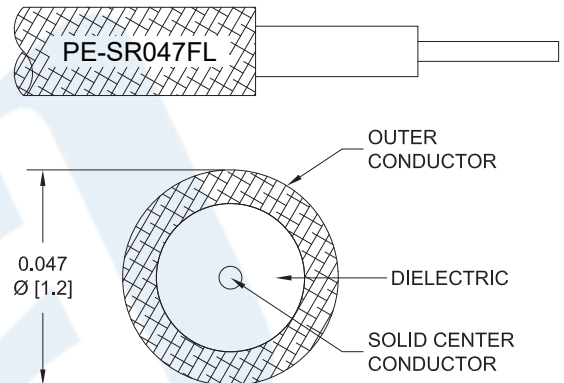
PE3W06699

Configuration

- Connector 1: SMA Male
- 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 PE3W06699 SMA male 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 SMA to SMP cable assembly has a male to female gender configuration with 50 ohm formable PE-SR047FL coax. The PE3W06699 SMA male to SMP female cable assembly operates to 8 GHz. The right angle SMP interface on the PE-SR047FL cable allows 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: [SMA Male to SMP Female Right Angle Cable Using PE-SR047FL Coax PE3W06699](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.38:1	
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	
PE3W06699	Custom Lengths Available	Insertion Loss (Typ.)	0.25	0.36	0.5	0.75	1.11	dB/ft	
			0.83	1.19	1.65	2.47	3.65	dB/m	
PE3W06699-6	6 inch	Insertion Loss (Typ.)	0.43	0.48	0.55	0.68	0.86	dB	0.019
PE3W06699-9	9 inch	Insertion Loss (Typ.)	0.49	0.57	0.68	0.87	1.14	dB	0.02
PE3W06699-12	12 inch	Insertion Loss (Typ.)	0.55	0.66	0.8	1.05	1.41	dB	0.02
PE3W06699-24	24 inch	Insertion Loss (Typ.)	0.8	1.02	1.3	1.8	2.52	dB	0.023
PE3W06699-36	36 inch	Insertion Loss (Typ.)	1.05	1.38	1.8	2.55	3.63	dB	0.026

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:	0.1 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.02 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 for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.02 lbs [9.07 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	SMA Male Threaded	SMP Female Right Angle Push-On
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-DTL-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Stainless Steel, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	MIL-DTL-45204
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	5/16 inch	
Torque	8 in-lbs [0.9 Nm]	

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

TECHNICAL DATA SHEET

PE3W06699

How to Order

Part Number Configuration:

PE3W06699

- **xx**

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

Example: PE3W06699-12 = 12 inches long cable
PE3W06699-100cm = 100 cm long cable

SMA Male 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: [SMA Male to SMP Female Right Angle Cable Using PE-SR047FL Coax PE3W06699](#)

URL: <https://www.pasternack.com/sma-male-smp-female-pe-sr047fl-cable-assembly-pe3w06699-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.

PE3W06699 CAD Drawing

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

F E D C B A

1

2

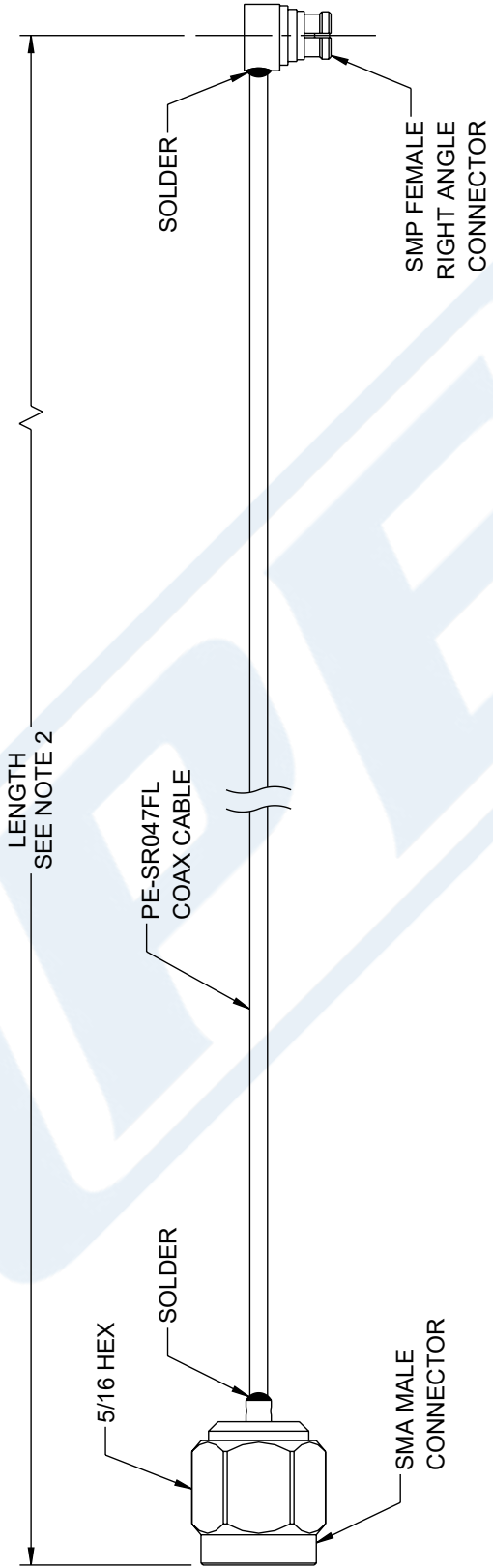
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ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		A	INITIAL RELEASE	10/16/2023	HBAKKE	AGANWANI



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 LENGTH DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS	TOLERANCES: X = ±.2 [5] XX = ±.02 [0.5] XXX = ±.005 [0.13]	FRACTIONS ±.1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: >12 [305] ≤ 512 [1298] = ±.125 / -0 >60 [1524] ≤ 120 [3048] = ±.100 / -0 >120 [3048] ≤ 300 [7620] = ±.150 / -0 >300 [7620] = ±.200 / -0		

ALL DIMENSIONS ARE FOR REFERENCE ONLY
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ON 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
SMA MALE TO ROUNDED BODY SMP FEMALE RIGHT ANGLE
CABLE USING PE-SR047FL COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE3W06699

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

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