

SMPS Female to SMA Female VITA 67.3 Cable Using PE-047SR Coax



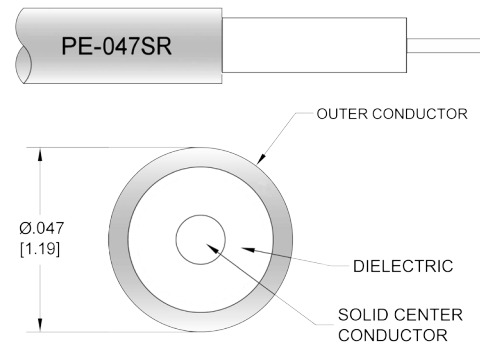
PE3W18974

Configuration

- Connector 1: SMPS Female
- Connector 2: SMA Female
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W18974 SMPS female to SMA female 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 SMPS to SMA cable assembly has a female to female gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W18974 SMPS female to SMA female cable assembly operates to 18 GHz.

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.

Electrical Specifications

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

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
PE3W18974	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	
PE3W18974-6	6 In	Insertion Loss (Typ.)	0.4	0.45	0.58	0.8	1.09	dB	0.015
PE3W18974-9	9 In	Insertion Loss (Typ.)	0.5	0.58	0.77	1.1	1.54	dB	0.016
PE3W18974-12	12 In	Insertion Loss (Typ.)	0.6	0.7	0.95	1.4	1.98	dB	0.017
PE3W18974-18	18 In	Insertion Loss (Typ.)	0.8	0.95	1.33	2	2.87	dB	0.019
PE3W18974-24	24 In	Insertion Loss (Typ.)	1	1.2	1.7	2.6	3.76	dB	0.021

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: 0.1 dB
 Base Weight: 0.0169 pounds
 Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.012 lbs [5.44 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 1 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	SMPS Female	SMA Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Passivated Stainless Steel	Brass, Gold
Body Plating Specification		MIL-G-45204

Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

Plotted and Other Data

Notes:

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PE3W18974

Typical Performance Data

How to Order

Part Number Configuration:

PE3W18974

- xx

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

Example: PE3W18974-12 = 12 inches long cable
PE3W18974-100cm = 100 cm long cable

SMPS Female to SMA Female VITA 67.3 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMPS Female to SMA Female VITA 67.3 Cable Using PE-047SR Coax PE3W18974](https://www.pasternack.com/smps-female-to-sma-female-vita-67.3-cable-using-pe-047sr-pe3w18974-p.aspx)

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The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W18974 CAD Drawing

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