

SMPS Female to 2.4mm Male VITA 67.3 Cable Using PE-047SR Coax



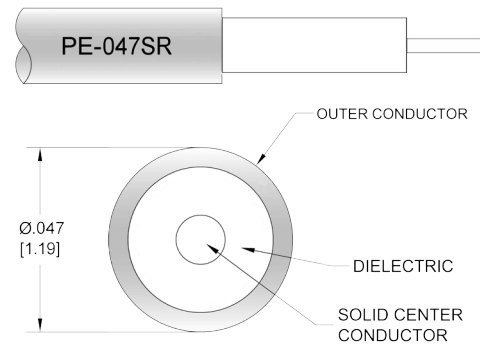
PE3W20740

Configuration

- Connector 1: SMPS Female
- Connector 2: 2.4mm Male
- Cable Type: PE-047SR
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W20740 SMPS female to 2.4mm male 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 2.4mm cable assembly has a female to male gender configuration with 50 ohm semi-rigid PE-047SR coax. The PE3W20740 SMPS female to 2.4mm male cable assembly operates to 40 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		40	GHz
VSWR			1.4:1	

Specifications by Frequency

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PE3W20740

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	MHz	
PE3W20740	Custom Lengths Available	Insertion Loss (Typ.)	0.55	0.8	1.3	1.9	dB/ft	
			1.81	2.63	4.27	6.24	dB/m	
PE3W20740-6	6 In	Insertion Loss (Typ.)	0.44	0.59	0.88	1.23	dB	0.01
PE3W20740-9	9 In	Insertion Loss (Typ.)	0.58	0.79	1.21	1.71	dB	0.011
PE3W20740-12	12 In	Insertion Loss (Typ.)	0.72	0.99	1.53	2.18	dB	0.012
PE3W20740-18	18 In	Insertion Loss (Typ.)	0.99	1.39	2.18	3.13	dB	0.014
PE3W20740-24	24 In	Insertion Loss (Typ.)	1.27	1.79	2.83	4.08	dB	0.016

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: $0.04 \times \text{SQRT}(\text{FGHz})$ dB
 Base Weight: 0.0119 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	2.4mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PEI
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold over Nickel
Body Plating Specification		50 µin minimum
Coupling Nut Material and Plating		Passivated Stainless Steel
Coupling Nut Plating Specification		ASTM-A582
Hex Size		5/16 inch
Torque		8 in-lbs 0.9 Nm

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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PE3W20740

Typical Performance Data

How to Order

Part Number Configuration:

PE3W20740

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W20740-12 = 12 inches long cable
PE3W20740-100cm = 100 cm long cable

SMPS Female to 2.4mm Male 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 2.4mm Male VITA 67.3 Cable Using PE-047SR Coax PE3W20740](https://www.pasternack.com/smps-female-to-2.4mm-male-vita-67.3-cable-using-pe-047sr-pe3w20740-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.

PE3W20740 CAD Drawing
SMPS Female to 2.4mm Male VITA 67.3 Cable Using PE-047SR Coax

