





TECHNICAL DATA SHEET

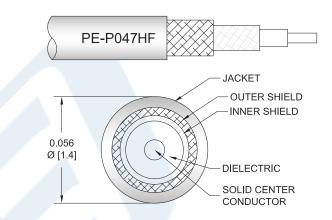
PE3C9951

Configuration

- Connector 1: SMPS Female Right AngleConnector 2: SMPS Female Right Angle
- Cable Type: PE-P047HFCoax Flex Type: Flexible

Features

- · Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- · Double Shielded
- · FEP Jacket



Applications

- · General Purpose
- · Laboratory Use
- Scientific research

- High-reliability, high-density for aerospace & defense application
- Ground base station & communication systems, avionics, radar systems

Description

Pasternack's PE3C9951 SMPS female right angle to SMPS female right angle cable using PE-P047HF coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMPS to SMPS cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047HF coax. The PE3C9951 SMPS female to SMPS female cable assembly operates to 40 GHz. The right angle SMPS interfaces on the PE-P047HF cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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: SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax PE3C9951

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax

TECHNICAL DATA SHEET

PE3C9951

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR		JAN .	1.5:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	40000	MHz	
PE3C9951	Custom Lengths	Insertion Loss (Typ.)	0.55	0.8	1.17	1.78	2.77	dB/ft	
PE3C9931	Available		1.81	2.63	3.84	5.84	9.09	dB/m	
PE3C9951-6	6 inch	Insertion Loss (Typ.)	0.66	0.94	1.35	1.97	2.91	dB	0.003
PE3C9951-12	12 inch	Insertion Loss (Typ.)	0.93	1.34	1.93	2.86	4.29	dB	0.005
PE3C9951-18	18 inch	Insertion Loss (Typ.)	1.21	1.74	2.52	3.75	5.68	dB	0.007

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: 0.12*SQRT(FGHz) dB
Loss due to Connector 2: 0.12*SQRT(FGHz) dB
Base Weight: 0.005 pounds
Additional Weight per Inch: 0.00033 pounds

Mechanical Specifications

Cable Assembly

Weight 0.005 lbs [2.27 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax PE3C9951

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax

TECHNICAL DATA SHEET

PE3C9951

Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type

Number of Shields Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

Repeated Minimum Bend Radius

PE-P047HF

50 Ohms Solid

Copper, Silver

PTFE

2

Silver Plated Copper Tape Silver Plated Copper Braid

FEP, Blue

0.06 in [1.52 mm]

0.1 in [2.54 mm]

Connectors

Description	Connector 1	Connector 2			
Туре	SMPS Female Right Angle Push-on	SMPS Female Right Angle Push-on			
Impedance	50 Ohms	50 Ohms			
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold			
Contact Plating Specification	50 μin minimum	50 μin minimum			
Dielectric Type	PTFE	PTFE			
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold			
Outer Conductor Plating Specification	50 μin minimum	50 μin minimum			
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold			
Body Plating Specification	30 μin minimum	30 μin minimum			

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax PE3C9951

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



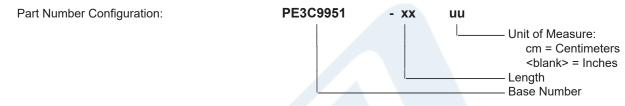


SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax

TECHNICAL DATA SHEET

PE3C9951

How to Order



Example: PE3C9951-12 = 12 inches long cable PE3C9951-100cm = 100 cm long cable

SMPS Female Right Angle to SMPS Female Right Angle Cable Using PE-P047HF 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 Right Angle to SMPS Female Right Angle Cable Using PE-P047HF Coax PE3C9951

URL: https://www.pasternack.com/smps-female-right-angle-to-smps-female-cable-using-pe-p047hf-pe3c9951-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

PE3C9951 CAD Drawing

