



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

TECHNICAL DATA SHEET

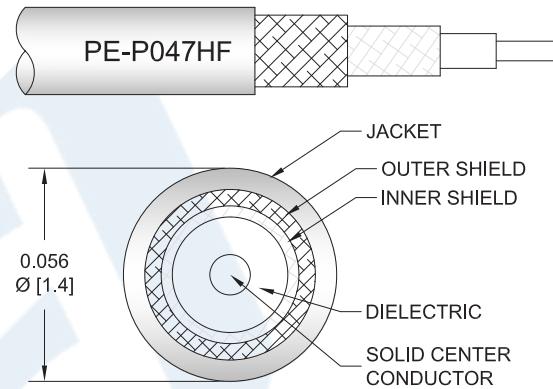
PE3C9966

Configuration

- Connector 1: SMPS Female Right Angle
- Connector 2: SMP Female
- Cable Type: PE-P047HF
- Coax Flex Type: Flexible

Features

- Max Frequency 18 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 PE3C9966 SMPS female right angle to SMP female 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 SMP cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047HF coax. The PE3C9966 SMPS female to SMP female cable assembly operates to 18 GHz. The right angle SMPS interface on the PE-P047HF cable allows 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 SMP Female Cable Using PE-P047HF Coax PE3C9966](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			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	1000	2000	4500	9000	18000	MHz
PE3C9966	Custom Lengths Available	Insertion Loss (Typ.)	0.35	0.49	0.763	1.107	1.681	dB/ft	
			1.15	1.61	2.51	3.64	5.52	dB/m	
PE3C9966-6	6 inch	Insertion Loss (Typ.)	0.4	0.52	1.29	1.02	1.45	dB	0.011
PE3C9966-12	12 inch	Insertion Loss (Typ.)	0.57	0.76	1.67	1.57	2.3	dB	0.013
PE3C9966-18	18 inch	Insertion Loss (Typ.)	0.75	1.01	2.05	2.13	3.14	dB	0.015

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: $0.12 * \text{SQRT}(F\text{GHz})$ dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.013 pounds

Additional Weight per Inch: 0.00033 pounds

Mechanical Specifications

Cable Assembly

Weight 0.0104 lbs [4.72 g]

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Cable

Cable Type	PE-P047HF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Blue
Jacket Diameter	0.06 in [1.52 mm]

Repeated Minimum Bend Radius

0.1 in [2.54 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMPS Female Right Angle Push-on	SMP Female Push-On
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 μ in minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Plating Specification	50 μ in minimum	MIL-G-45204
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	30 μ in minimum	MIL-G-45204

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C9966- **xx****uu**

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

Example: PE3C9966-12 = 12 inches long cable
PE3C9966-100cm = 100 cm long cable

SMPS Female Right Angle to SMP Female 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 SMP Female Cable Using PE-P047HF Coax PE3C9966](#)

URL: <https://www.pasternack.com/smPS-female-right-angle-to-smp-female-cable-using-pe-p047hf-pe3c9966-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.

PE3C9966 CAD Drawing

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

