



# RF Cable Assemblies Technical Data Sheet

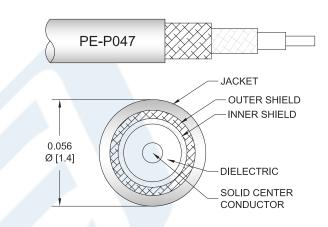
PE3C4969-48

# Configuration

- Connector 1: SMP Female Right AngleConnector 2: SMP Female Right Angle
- Cable Type: PE-P047

### **Features**

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket



# **Applications**

· General Purpose

· Laboratory Use

### Description

Pasternack's PE3C4969-48 SMP female right angle to SMP female right angle 48 inch cable using PE-P047 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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C4969-48 SMP female to SMP female cable assembly operates to 18 GHz. The right angle SMP interfaces on the PE-P047 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.

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.45:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMP Female Right Angle to SMP Female Right Angle Cable 48 Inch Length Using PE-P047 Coax PE3C4969-48

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

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### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	1.24	1.62	2.28	3.2	4.6	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.4dB of connector loss.

### **Mechanical Specifications**

**Cable Assembly** 

Length\* 48 in [121.92 cm]
Diameter 0.136 in [3.45 mm]

Cable

Cable Type PE-P047
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver Dielectric Type FEP

Number of Shields

Shield Layer 1

Silver Plated Copper Tape
Shield Layer 2

Silver Plated Copper Braid

Jacket Material FEP, Blue

Jacket Diameter 0.056 in [1.42 mm]

One Time Minimum Bend Radius 0.2 in [5.08 mm]
Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMP Female Right Angle	SMP Female Right Angle		
Specification	MIL-STD-348	MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Specification	MIL-G-45204	MIL-G-45204		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Body Plating Specification	MIL-G-45204	MIL-G-45204		

Mechanical Specification Notes:

## **Environmental Specifications**

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

Notes:

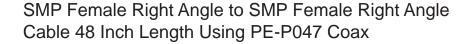
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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



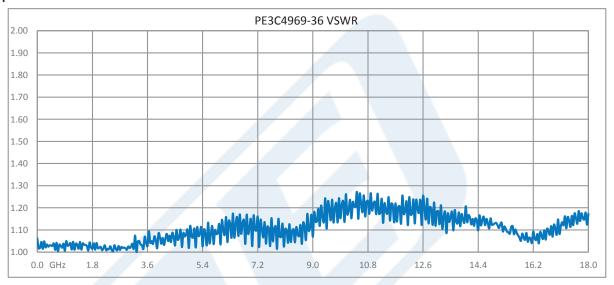




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### **Typical Performance Data**



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#### **How to Order**



Example: PE3C4969-12 = 12 inches long cable PE3C4969-100cm = 100 cm long cable

SMP Female Right Angle to SMP Female Right Angle Cable 48 Inch Length Using PE-P047 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: SMP Female Right Angle to SMP Female Right Angle Cable 48 Inch Length Using PE-P047 Coax PE3C4969-48

URL: https://www.pasternack.com/smp-female-smp-female-pe-p047-cable-assembly-pe3c4969-48-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.

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PE3C4969-48 CAD Drawing
SMP Female Right Angle to SMP Female Right Angle
Cable 48 Inch Length Using PE-P047 Coax

