## Configuration

- Connector 1: SMP Female RightAngle
- Connector 2: SMP Female RightAngle
- Cable Type: PE-P047

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 |
| :--- | :---: | :---: | :---: | :---: |
| Frequency Range | DC |  | 18 | Units |
| VSWR |  |  | $1.45: 1$ |  |
| Velocity of Propagation | 90 | 70 |  | $\%$ |
| RF Shielding |  | $29[95.14]$ |  | $\mathrm{pF} / \mathrm{ft}[\mathrm{pF} / \mathrm{m}]$ |
| Capacitance |  |  |  |  |

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 PEP047 Coax PE3C4969-48

[^0]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 0.4 dB of connector loss.

## Mechanical Specifications

Cable Assembly
Length*
Diameter

Cable
Cable Type
48 in [121.92 cm ]

Impedance
Inner C onductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Jacket Material
Jacket Diameter
0.136 in [3.45 mm]

One Time Minimum Bend Radius
PE-P047
50 Ohms
Solid
Copper, Silver
FEP
2
Silver Plated Copper Tape
Silver Plated Copper Braid
FEP, Blue
0.056 in [1.42 mm]
0.2 in [5.08 mm]
0.4 in [10.16 mm]

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 C oax PE3C4969-48

SMP Female RightAngle to SMP Female Right Angle Cable 48 Inch Length Using PE-P 047 Coax

Connectors

| Description | Connector 1 | Connector 2 |
| :--- | :---: | :---: |
| Type | SMP Female RightAngle | 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:
*All cable assemblies have a length tolerance of $1.5 \%$ or $\pm 3 / 8$ ", whichever is greater.

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Environmental Specifications
Temperature
Operating Range -55 to +125 deg C
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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: SMP Female Right Angle to SMP Female Right Angle Cable 48 Inch Length Using PEP047 Coax PE3C4969-48

## PE PASTERNACK THE ENGINEER'S RF SOURCE

SMP Female Right Angle to SMP Female RightAngle Cable 48 Inch Length Using PE-P 047 Coax

Typical Performance Data


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 PEP047 Coax PE3C4969-48

[^1]Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451
Sales@Pasternack.com •Techsupport@Pasternack.com

## How to Order

Part Number Configuration:


Example: PE3C4969-12 = 12 inches long cable PE3C4969-100 cm = 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 RightAngle to SMP Female RightAngle Cable 48 Inch Length Using PE-P 047 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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