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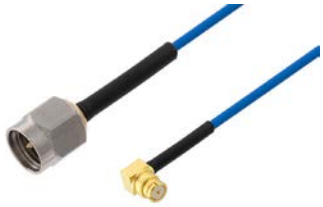
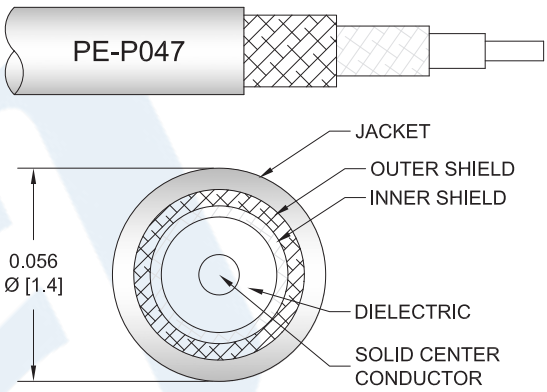


# SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax

## RF Cable Assemblies Technical Data Sheet PE3C4968-60

### Configuration

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




### Features

- Max Frequency 12 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C4968-60 SMA male to SMP female right angle 60 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 SMA to SMP cable assembly has a male to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C4968-60 SMA male to SMP female cable assembly operates to 12 GHz. The right angle SMP interface on the PE-P047 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: SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax PE3C4968-60

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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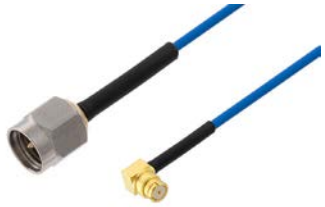

# SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax

## RF Cable Assemblies Technical Data Sheet PE3C4968-60

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 12 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |

### Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 0.5 | 1 | 2.5 | 5 | 12 | GHz |
| Insertion Loss (Typ.) | 1.54 | 2.04 | 3.24 | 4.79 | 6.3 | dB |

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

**Cable Assembly**

| | |
|---|---|
| Length* | 60 in [152.4 cm] |
| Diameter | 0.312 in [7.92 mm] |

**Cable**

| | |
|---|---|
| Cable Type | PE-P047 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Outer Conductor Material and Plating | Copper |
| Outer Conductor Diameter | 0.047 in [1.19 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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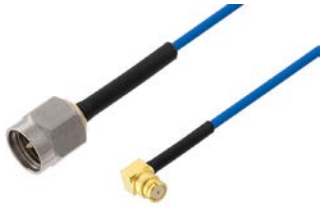

# SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax

## RF Cable Assemblies Technical Data Sheet PE3C4968-60

### Connectors

| Description | Connector 1 | Connector 2 |
|---|---|---|
| Type | SMA Male | SMP Female Right Angle |
| Specification | | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| Contact Material and Plating | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold |
| Contact Plating Specification | MIL-G-45204 | MIL-G-45204 |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Stainless Steel, Gold | Beryllium Copper, Gold |
| Body Plating Specification | MIL-G-45204 | MIL-G-45204 |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Coupling Nut Plating Specification | ASTM-A380 | |
| Hex Size | 5/16 inch | |
| Torque | 8 in-lbs [0.9 Nm] | |

### Environmental Specifications

**Temperature**

Operating Range -55 to +100 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: SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax PE3C4968-60

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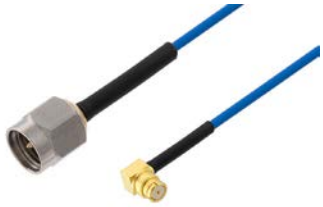

# SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax

## RF Cable Assemblies Technical Data Sheet PE3C4968-60

### How to Order

Part Number Configuration: **PE3C4968 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C4968 — Base Number

Example: PE3C4968-12 = 12 inches long cable
PE3C4968-100cm = 100 cm long cable

SMA Male to SMP Female Right Angle Cable 60 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: SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax PE3C4968-60

URL: https://www.pasternack.com/sma-male-smp-female-pe-p047-cable-assembly-pe3c4968-60-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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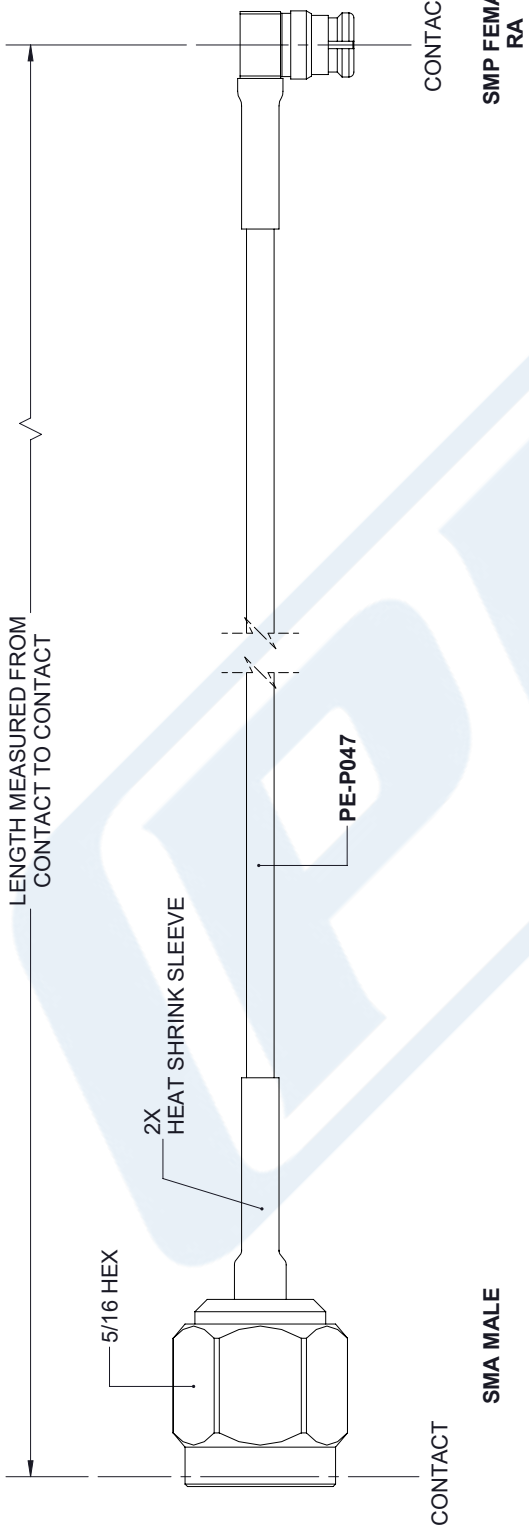
# PE3C4968-60 CAD Drawing

SMA Male to SMP Female Right Angle Cable 60 Inch Length Using PE-P047 Coax




| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 3/11/2020 | S.ELLIS |

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

| | | |
|---|---|---|
| .X = ± .2 | [5.08] | FRACTIONS |
| .XX = ± .02 | [.51] | ± 1/32 |
| .XXX = ± .005 | [.13] | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

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| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|---|---|---|---|---|
| A | 53919 | K.DANG | PE3C4968 | A |

SHEET 1 OF 1

SCALE N/A

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