



SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing

RF Connectors Technical Data Sheet

PE4547

Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-047SR, PE-SR047AL, PE-SR047FL
- 2 Hole Flange

Features

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.5:1

- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

Description

Pasternack's PE4547 SMA female 2 hole flange mount connector with solder/solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL (.481 inch hole spacing) is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.5:1. This SMA 2 hole flange connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our SMA female 2 hole flange connector PE4547 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.5:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Mechanical Specifications

| Size | |
|------------|---------------------|
| Length | 0.439 in [11.15 mm] |
| Width/Dia. | 0.223 in [5.66 mm] |
| Height | 0.625 in [15.88 mm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing PE4547](#)



SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing

RF Connectors Technical Data Sheet

PE4547

Weight 0.005 lbs [2.27 g]

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|---------------------------------|
| Contact | Beryllium Copper | Gold over Nickel MIL-G-45204 |
| Insulation | PTFE | |
| Outer Conductor | Stainless Steel | Gold MIL-G-45204 |
| Body | Stainless Steel | Gold over Nickel MIL-G-45204 |

Environmental Specifications

Temperature

Operating Range

-65 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: [SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing PE4547](#)



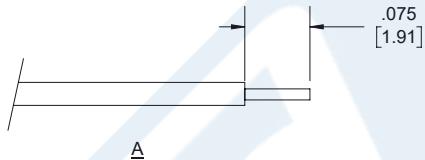
SMA Female Connector Solder Attachment
2 Hole Flange Mount for PE-047SR, PE-SR047AL,
PE-SR047FL, .481 inch Hole Spacing

RF Connectors
Technical Data Sheet

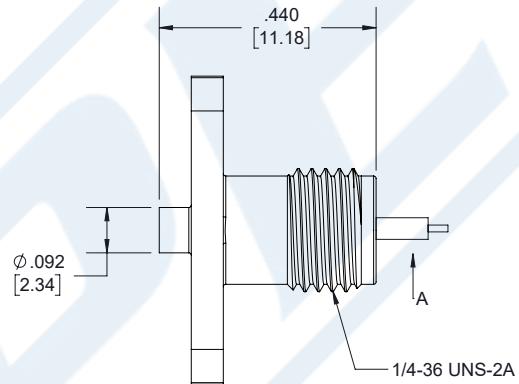
PE4547

Assembly Instruction

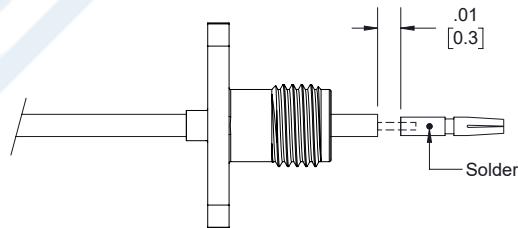
1. STRIP CABLE AS SHOWN,
DO NOT NICK CENTER CONDUCTOR.



2. SLIDE CABLE THROUGH THE CONNECTOR.



3. SOLDER CENTER CONDUCTORS TO CONTACT AND
WITH THE TOOL PESTL1008 .INSERT IT IN THE CONTACT AND
PUSH IT BACK UNTIL STOPS ON THE DIELECTRIC AND SOLDER.



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SMA Female Connector Solder Attachment
2 Hole Flange Mount for PE-047SR, PE-SR047AL,
PE-SR047FL, .481 inch Hole Spacing

RF Connectors
Technical Data Sheet

PE4547

SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing 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 Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing PE4547](https://www.pasternack.com/sma-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4547-p.aspx)

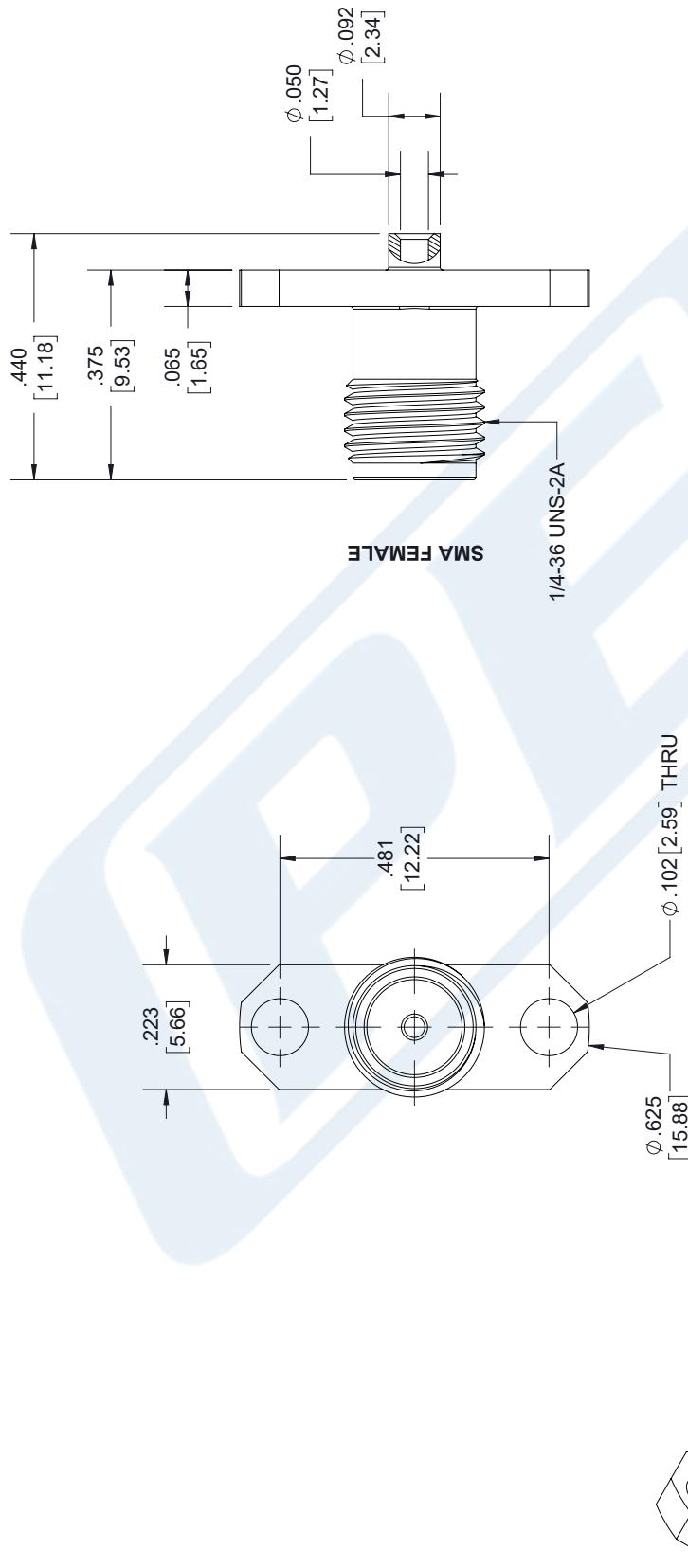
URL: <https://www.pasternack.com/sma-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4547-p.aspx>

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PE4547 CAD Drawing

SMA Female Connector Solder Attachment 2 Hole Flange Mount for PE-047SR, PE-SR047AL, PE-SR047FL, .481 inch Hole Spacing

| REVISIONS | | | |
|-----------|---|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| B | PCRF-E547-20210916-Separate instructions page | 05/11/2021 | SRAUTUS |



| | | | |
|--|-----------|--|----------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | TOLERANCES: | |
| $X = \pm .2$ [6.08] FRACTIONS: $XX = \pm .02$ [1.31] $\pm 1/32$ $XXX = \pm .005$ [1.31] ANGLES $\pm 1^\circ$ CABLE LENGTH (L) TOLERANCES: $L \pm 12$ [305] = $+1$ [25] / -0 $12(1524) < L \le 60$ [1624] = $+2$ [51] / -0 $60(11524) < L \le 120$ [3048] = $+4$ [102] / -0 $120(3048) < L \le 300$ [7620] = $+6$ [152] / -0 $300(7620) < L = +8%$ L / -0 | |  PASTERNACK® an INFINITE brand | |
| | | Pasternack Enterprises, Inc. P.O. Box 1679, Irvine, CA 926923. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com | |
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | Kdang | PE4547 |
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Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

RF Connectors Technical Data Sheet

PE45539

Configuration

- Mini SMP Male Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL
- VITA 67 Design

Features

- Max. Operating Frequency 40 GHz
- Good VSWR of 1.45:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM B488
- Blind Mate Connector

- Coaxial interconnects on VPX platforms
- Standard MIL-STD-348 SMPM interface
- Rugged Stainless Steel construction
- Accepts 0.047" and 0.086" cable contacts for end-to-end solution

Applications

- General Purpose Test
- Custom Cable Assemblies

- Robust and Rugged high speed cabled solution

- VITA 67 Backplane
- High Density Applications

Description

Pasternack's PE45539 4-position block housing is part of our full line of VITA 67 Backplane solutions and is available for same-day shipping. Pasternack introduces 4 position (VITA 67.1) and 8 position (VITA 67.2) RF connector housings designed for 3U and 6U formats within the OpenVPX architecture. These blocks are machined from stainless steel for a rugged solution. The blocks are designed to accept both PE45535 (0.047" cable contact) & PE45536 (.086" cable contact) used in flexible or semi-rigid cables. These blocks are ideal for blind mating daughtercards to motherboards as the RF contacts provide +/- .010" radial misalignment tolerance and have excellent return loss up to 40 GHz.

The SMPM (Mini-SMP) blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated. The block's right angle body geometry allows for easier connections in tight spaces.

Our SMPM (Mini-SMP) right angle block PE45539 specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 40 | GHz |
| VSWR | | | 1.45:1 | |
| Dielectric Withstanding Voltage (AC) | | 325 | | Vrms |
| Inner Conductor DC Resistance | | 6 | | mOhms |
| Outer Conductor DC Resistance | | 5 | | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL PE45539](#)



Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

RF Connectors Technical Data Sheet

PE45539

Mechanical Specifications

| Size | |
|---------------|---------------------|
| Length | 0.42 in [10.67 mm] |
| Width/Dia. | 0.19 in [4.83 mm] |
| Height | 0.19 in [4.83 mm] |
| Weight | 0.0016 lbs [0.73 g] |
| Mating Cycles | 500 Cycles |

Material Specifications

| Description | Material | Plating |
|----------------|------------------|----------------------------|
| Contact | Beryllium Copper | Gold ASTM B488 |
| Insulation | PEI | |
| Body | Brass | Gold ASTM B488 |
| Retaining Ring | Beryllium Copper | Nickel SAE-AMS-QQ-N-290 |

Environmental Specifications

| Temperature | -55 to +125 deg C |
|-----------------|--|
| Operating Range | 1,000 megohms within 5 minutes after removal from |
| Humidity | humidity, tested per MIL-STD-202, Method 106 |
| Shock | Sawtooth pulse of 100 g 6ms per MIL-STD-202, Method 213, Condition I |
| Vibration | MIL-STD-202, Method 214, Test Condition I, Curve D |
| Thermal Shock | MIL-STD-202, Method 107, Test Condition A |

Compliance Certifications

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

Plotted and Other Data

Notes:

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Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

RF Connectors Technical Data Sheet

PE45539

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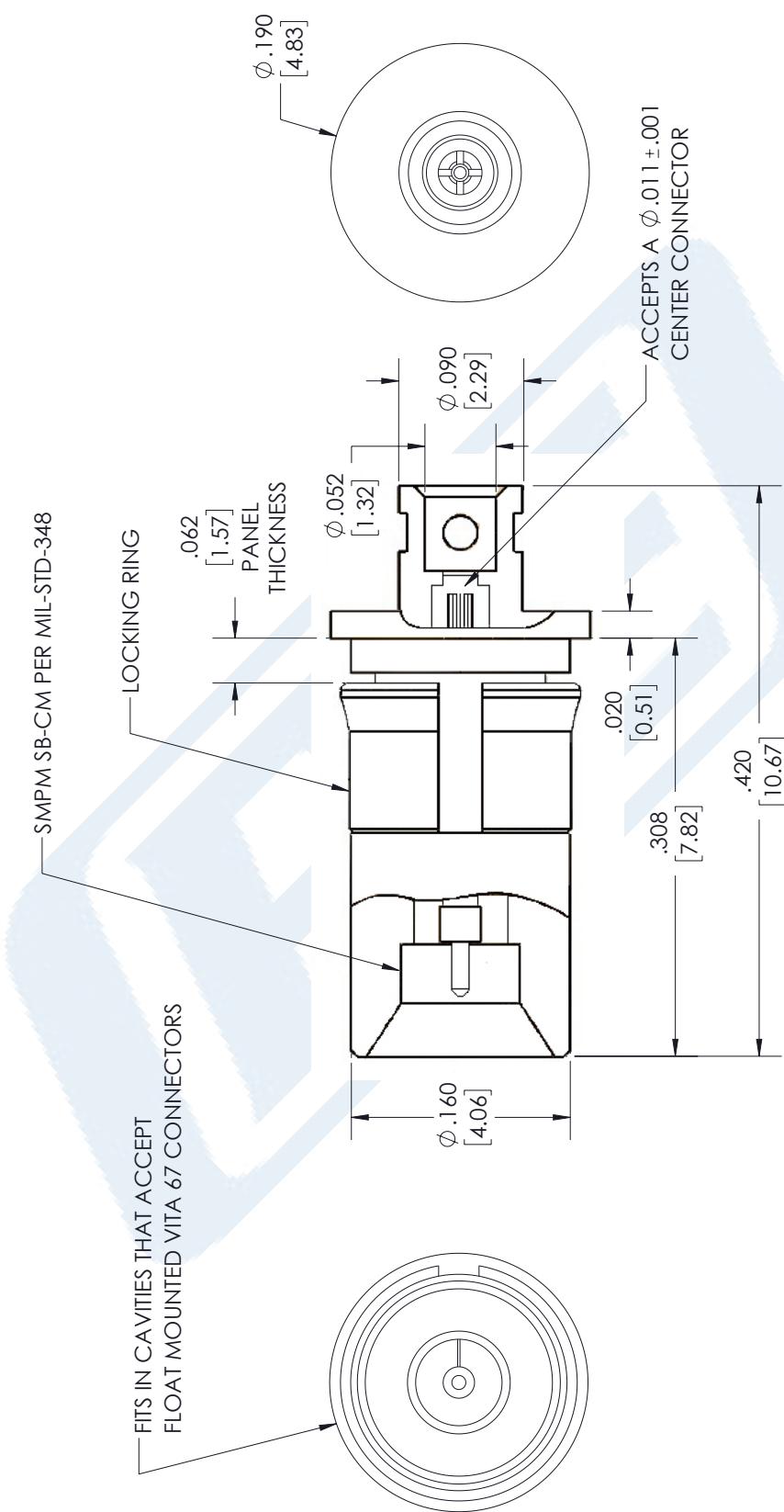
URL: <https://www.pasternack.com/mini-smp-male-pe-p047-pe-p047ll-pe-sr047fl-connector-pe45539-p.aspx>

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PE45539 CAD Drawing

Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

| REVISIONS | | | | |
|-----------|-----------------|------------|----------|--|
| REV. | DESCRIPTION | DATE | APPROVED | |
| A | INITIAL RELEASE | 09/16/2022 | AGANWANI | |



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| SHEET | 1 | OF | 1 |
| SCALE | N/A | ITEM NO. | PE45539 |
| SIZE | CAGE CODE | DRAWN BY | REV |
| A | 53919 | BPUCHASKI | A |

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

FRACTIONS
 $X = \pm .2$ [5.08] $\frac{1}{32}$
 $XX = \pm .02$ [.51] $\pm 1/32$
 $XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$
 CABLE LENGTH (L) TOLERANCES:
 $L \leq 12$ [305] $+1/-0$
 12 [305] $< L \leq 60$ [1524] $= +2/-1$ [51] -0
 60 [1524] $< L \leq 120$ [3048] $= +4/-10$ [21] -0
 120 [3048] $< L \leq 300$ [7620] $= +6/-15$ [2] -0
 300 [7620] $< L = +5/-6$ [L] -0

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047 Semi-rigid Coax Cable with Copper Outer Conductor

TECHNICAL DATA SHEET

PE-047SR

Configuration

Inner Conductor Material and Plating
 Dielectric Type
 Shield Materials

Copper Clad Steel, Silver
 PTFE
 Copper

Electrical Specifications

Impedance, Ohms
 Maximum Operating Frequency, GHz
 Dielectric Withstanding Voltage, Vrms

50
 40
 2,000

Electrical Specifications by Frequency

Frequency 1

Frequency, MHz
 Attenuation, dB/100ft [dB/100m]
 Power Handling, Watts

1000
 40 [131.23]
 32

Frequency 2

Frequency, GHz
 Attenuation, dB/100ft [dB/100m]
 Power Handling, Watts

10
 130 [426.51]
 9

Frequency 3

Frequency, GHz
 Attenuation, dB/100ft [dB/100m]
 Power Handling, Watts

20
 190 [623.36]
 6.5

Mechanical Specifications

Temperature

Operating Range, deg C

-55 to +100

Inner Conductor

Number of Strands
 Material
 Plating
 Diameter, in [mm]

1
 Copper Clad Steel
 Silver
 0.011 [0.28]

Dielectric:

Type
 Diameter, in [mm]

PTFE
 0.037 [0.94]

Shield:

Number of
 Material 1
 Diameter, in [mm]

1
 Copper
 0.047 [1.19]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR](#)

047 Semi-rigid Coax Cable with Copper Outer Conductor

TECHNICAL DATA SHEET

PE-047SR

Jacket:

| | |
|---------------------------------------|--------------|
| Diameter, in [mm] | 0.047 [1.19] |
| One Time Minimum Bend Radius, in [mm] | 0.05 [1.27] |
| Weight, lbs/ft [Kg/m] | 0.005 [0.01] |

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant
REACH Compliant

12/19/2011

Plotted and Other Data

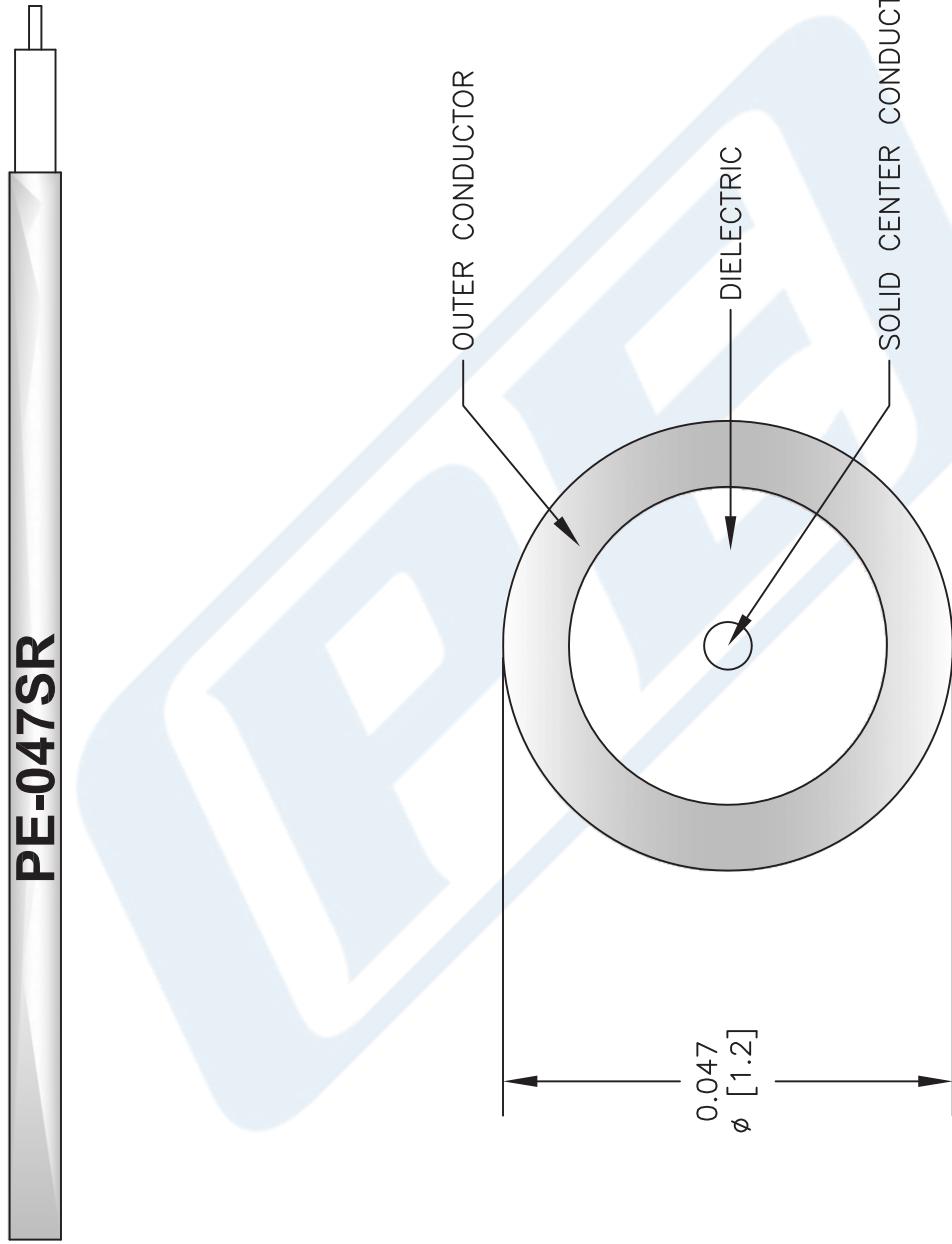
Notes:
• Values at +25 °C, sea level

047 Semi-rigid Coax Cable with Copper Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: [047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR](http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-copper-pe-047sr-p.aspx)

URL: <http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-copper-pe-047sr-p.aspx>

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| | | |
|---|---|--|
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| | FSCM NO. 53919 CAD FILE 073113 SCALE N/A SIZE A 2233 | |