



## SMA Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

PE4418

#### Configuration

- SMA Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder/Solder Attachment

#### Features

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

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4418 SMA female connector with solder/solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL is part of our full line of RF components available for same-day shipping.

Our SMA female connector PE4418 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.

#### Mechanical Specifications

| Size       |                     |
|------------|---------------------|
| Length     | 0.46 in [11.68 mm]  |
| Width/Dia. | 0.25 in [6.35 mm]   |
| Weight     | 0.00484 lbs [2.2 g] |

#### Material Specifications

| Description | Material         | Plating             |
|-------------|------------------|---------------------|
| Contact     | Beryllium Copper | Gold<br>MIL-G-45204 |
| Insulation  | PTFE             |                     |
| Body        | Brass            | Gold<br>MIL-G-45204 |

#### Environmental Specifications

| Temperature     |                   |
|-----------------|-------------------|
| Operating Range | -65 to +165 deg C |

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 for PE-047SR, PE-SR047AL, PE-SR047FL PE4418](#)



## SMA Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

### RF Connectors Technical Data Sheet

PE4418

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

#### Plotted and Other Data

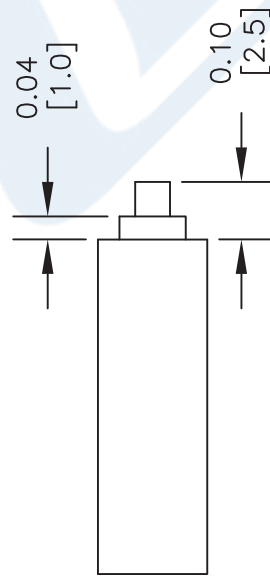
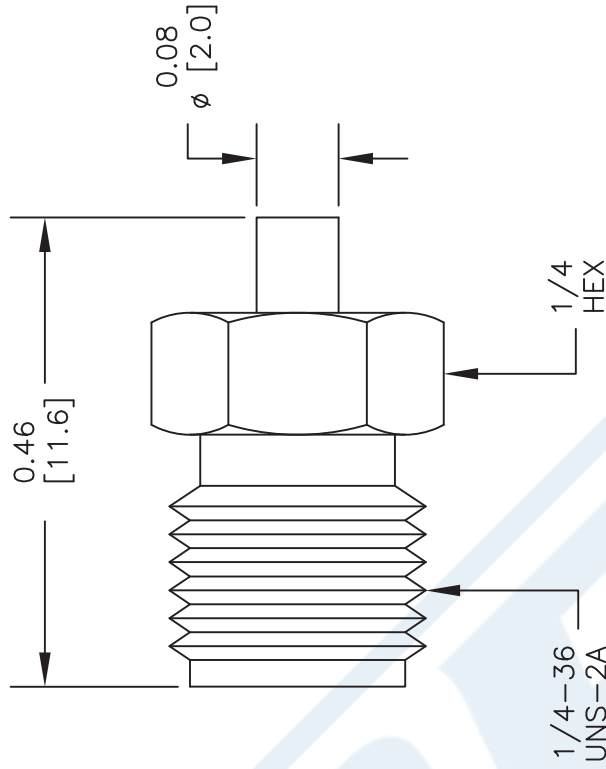
Notes:

SMA Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL 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: [SMA Female Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE4418](#)

URL: <https://www.pasternack.com/sma-female-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4418-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.



### STRIPPING DIMENSIONS

### ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIDE CABLE THROUGH BODY.
2. INSERT CENTER CONDUCTOR INTO CONTACT UNTIL DIELECTRIC BOTTOMS INSIDE CONTACT. SOFT SOLDER CONTACT TO CENTER CONDUCTOR. DO NOT OVER HEAT DIELECTRIC.
3. USING ASSEMBLY TOOL, PRESS CONTACT FULLY INTO INSULATOR. SOLDER OUTER CONDUCTOR TO BODY.

DWG TITLE

**PE4418**

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

REV. -

FSCM NO. 53919

CAD FILE 120104

SCALE N/A

SIZE A

2233

**PE PASTERNAK®**

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# N Female Precision Connector Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL

## TECHNICAL DATA SHEET

PE4945

### N Female Precision Connector Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL

#### Configuration

|  |                                |
|--|--------------------------------|
| Connector                                | N Female                       |
| Connector Interface Type                 | PE-047SR,PE-SR047AL,PE-SR047FL |
| Cable Attachment Method (Shield/Contact) | Solder/Solder                  |
| Connector Design                         | Precision                      |
| Body Style                               | Straight                       |

#### Electrical Specifications

|                 |    |
|-----------------|----|
| Impedance, Ohms | 50 |
|-----------------|----|

#### Mechanical Specifications

##### Size

|                     |               |
|---------------------|---------------|
| Length, in [mm]     | 1.335 [33.91] |
| Width/Dia., in [mm] | 0.695 [17.65] |
| Weight, lbs [g]     | 0.089 [40.37] |

##### Connector

|                                      |               |
|--------------------------------------|---------------|
| Type                                 | N Female      |
| Contact Material and Plating         | Gold          |
| Outer Conductor Material and Plating | Brass, Gold   |
| Body Material and Plating            | Brass, Nickel |
| Dielectric Type                      | Teflon        |

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

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

#### Plotted and Other Data

|        |                            |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

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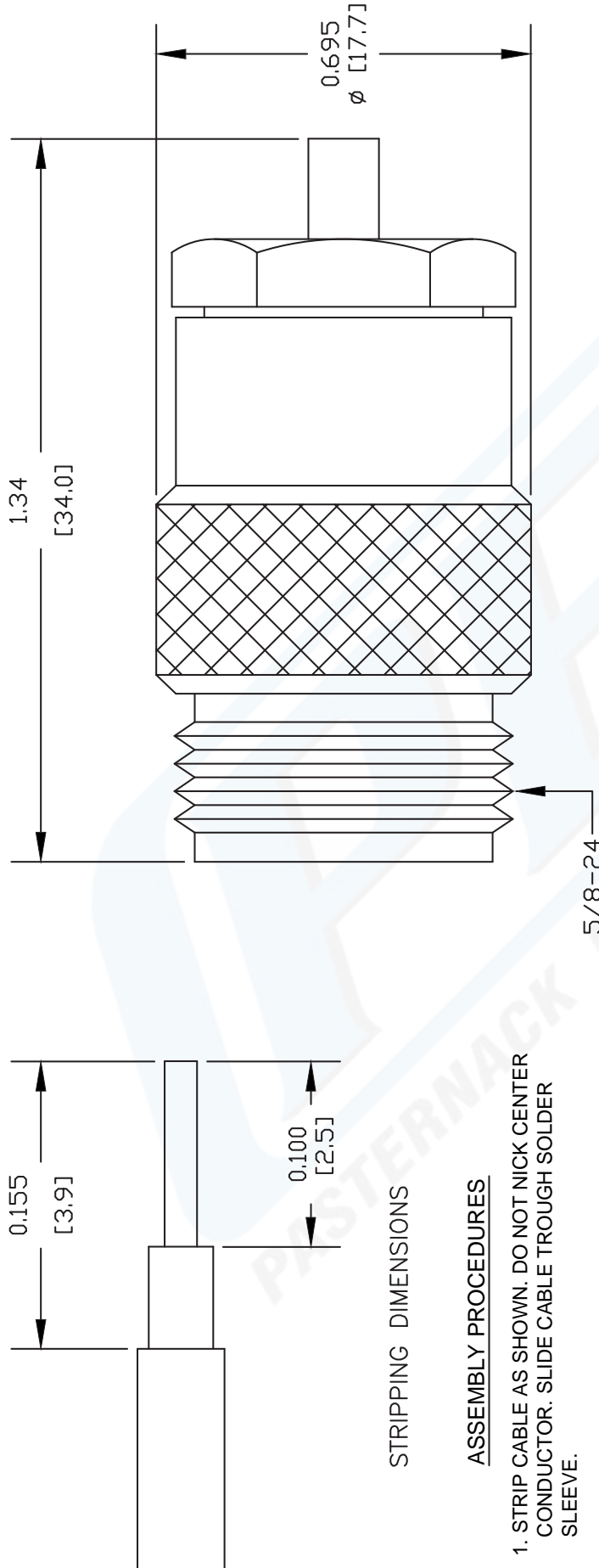
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Precision Connector Solder Attachment For PE-047SR, PE-SR047AL, PE-SR047FL PE4945](#)

URL: <http://www.pasternack.com/n-female-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe4945-p.aspx>

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# PE4945 CAD Drawing

N Female Precision Connector Solder Attachment For  
PE-047SR, PE-SR047AL, PE-SR047FL



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR. SLIDE CABLE TROUGH SOLDER SLEEVE.
2. INSERT CENTER CONDUCTOR INTO CONTACT UNTIL DIELECTRIC BOTTOMS INSIDE CONTACT. SOFT SOLDER CENTER CONDUCTOR TO CONTACT.
3. THREAD BODY ONTO SOLDER SLEEVE AND TIGHTEN SECURELY. USING ASSEMBLY TOOL, PRESS CONTACT INTO INSULATOR. SOLDER OUTER CONDUCTOR TO SOLDER SLEEVE.

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3. DIMENSIONS ARE IN INCHES [mm].  
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE

**PE4945**

FSCM NO. 53919

CAD FILE

061402

SCALE N/A

SIZE A

127

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047 Semi-rigid Coax Cable with Tinned  
Aluminum Outer Conductor

TECHNICAL DATA SHEET

PE-SR047AL

047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

**Configuration**

|                                      |                           |
|--------------------------------------|---------------------------|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Shield Materials                     | Tinned Aluminum           |

**Electrical Specifications**

|                                  |       |
|----------------------------------|-------|
| Impedance, Ohms                  | 50    |
| Velocity of Propagation, %       | 69.5  |
| Maximum Operating Frequency, GHz | 20    |
| RF Shielding, dB                 | 90    |
| Maximum Operating Voltage, Volts | 1,000 |

**Electrical Specifications by Frequency**

**Frequency 1**

|                                 |             |
|---------------------------------|-------------|
| Frequency, MHz                  | 1000        |
| Attenuation, dB/100ft [dB/100m] | 41 [134.51] |
| Power Handling, Watts           | 32          |

**Frequency 2**

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 10           |
| Attenuation, dB/100ft [dB/100m] | 130 [426.51] |
| Power Handling, Watts           | 9            |

**Frequency 3**

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 20           |
| Attenuation, dB/100ft [dB/100m] | 190 [623.36] |
| Power Handling, Watts           | 6.5          |

**Mechanical Specifications**

**Temperature**

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +100 |
|------------------------|-------------|

**Inner Conductor**

|                   |                   |
|-------------------|-------------------|
| Number of Strands | 1                 |
| Material          | Copper Clad Steel |
| Plating           | Silver            |
| Diameter, in [mm] | 0.011 [0.28]      |

**Dielectric:**

|                   |              |
|-------------------|--------------|
| Type              | PTFE         |
| Diameter, in [mm] | 0.037 [0.94] |

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 Tinned Aluminum Outer Conductor PE-SR047AL](#)

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047 Semi-rigid Coax Cable with Tinned  
Aluminum Outer Conductor

TECHNICAL DATA SHEET

PE-SR047AL

**Shield:**

|            |                 |
|------------|-----------------|
| Number of  | 1               |
| Material 1 | Tinned Aluminum |

**Jacket:**

|                                       |              |
|---------------------------------------|--------------|
| Diameter, in [mm]                     | 0.047 [1.19] |
| One Time Minimum Bend Radius, in [mm] | 0.05 [1.27]  |
| Weight, lbs/ft [Kg/m]                 | 0.002 [0]    |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

**Plotted and Other Data**

Notes: Values at 25 °C, sea level

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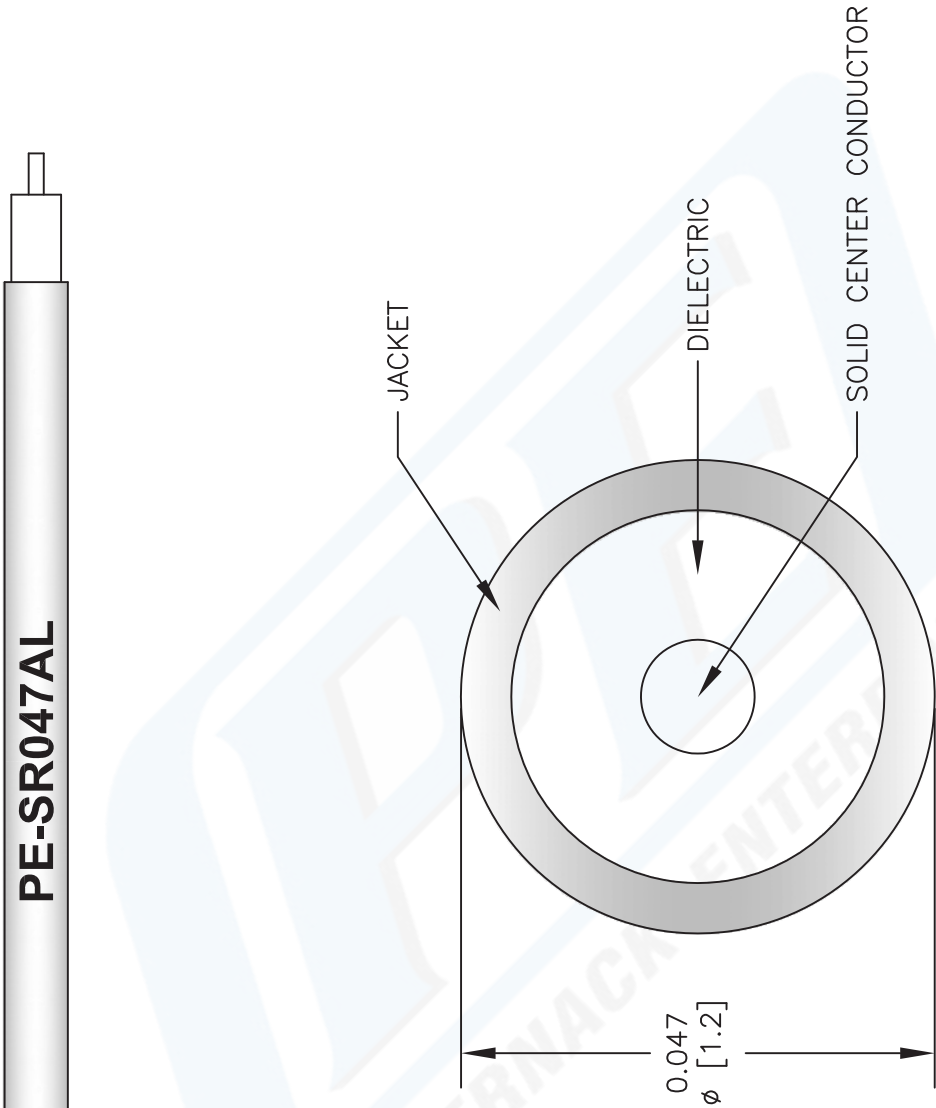
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR047AL](#)

URL: <http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-tinned-aluminum-pe-sr047al-p.aspx>

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PE-SR047AL CAD Drawing

047 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor



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DWG TITLE  
**PE-SR047AL**

FSCM NO. 53919

2233

SIZE A

SCALE N/A

CAD FILE 103112-B

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