



# SMA Male Connector Solder Attachment for PE-SR401AL, PE-SR401FL, RG401

## RF Connectors Technical Data Sheet

PE4907

### Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-SR401AL, PE-SR401FL, RG401 Interface Type
- Solder/Solder Attachment
- 5/16 inch Hex

### Features

- Max. Operating Frequency 12 GHz
- Gold Plated Contact
- Contact plating according to MIL-G-45204

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE4907 SMA male connector with solder/solder attachment for PE-SR401AL, PE-SR401FL and RG401 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 12 GHz.

Our SMA male connector PE4907 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      |         | 12      | GHz   |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,500   | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |

### Mechanical Specifications

#### Size

|               |                                 |
|---------------|---------------------------------|
| Length        | 0.89 in [22.61 mm]              |
| Width/Dia.    | 0.312 in [7.92 mm]              |
| Weight        | 0.013 lbs [5.9 g]               |
| Mating Torque | 3 to 5 in-lbs [0.34 to 0.57 Nm] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for PE-SR401AL, PE-SR401FL, RG401 PE4907](#)



SMA Male Connector Solder Attachment for PE-SR401AL, PE-SR401FL, RG401

RF Connectors Technical Data Sheet

PE4907

**Material Specifications**

| Description  | Material | Plating             |
|--------------|----------|---------------------|
| Contact      |          | Gold<br>MIL-G-45204 |
| Insulation   | PTFE     |                     |
| Body         | Brass    | Gold<br>MIL-G-45204 |
| Coupling Nut | Brass    | Nickel<br>QQ-N-290  |

**Environmental Specifications**

**Temperature**

Operating Range -65 to +165 deg C

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

**Plotted and Other Data**

Notes:

SMA Male Connector Solder Attachment for PE-SR401AL, PE-SR401FL, RG401 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.

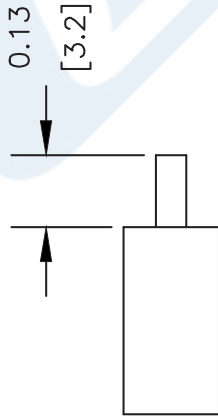
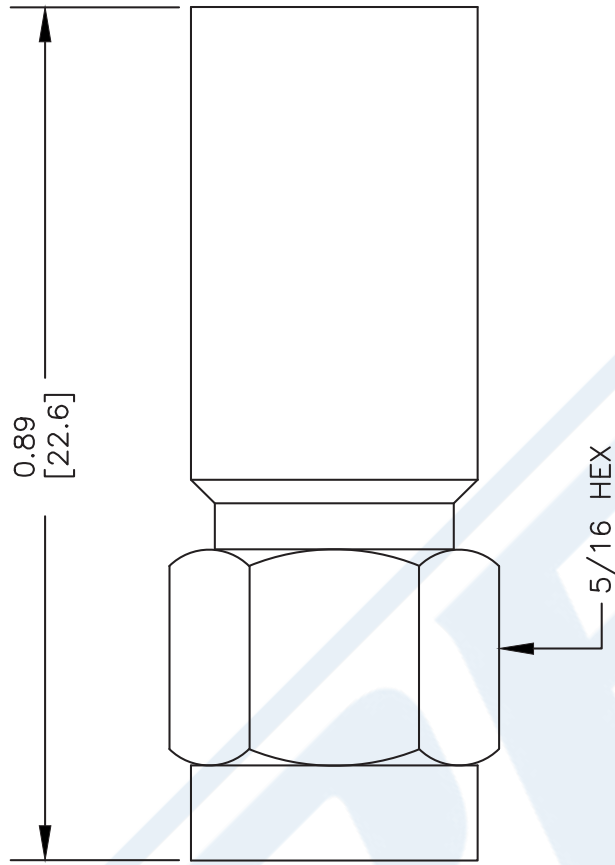
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder Attachment for PE-SR401AL, PE-SR401FL, RG401 PE4907](#)

URL: <https://www.pasternack.com/sma-male-standard-pe-sr401al-pe-sr401fl-rg401-connector-pe4907-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.

# PE4907 CAD Drawing

SMA Male Connector Solder Attachment for PE-SR401AL, PE-SR401FL, RG401



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN, DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER.
3. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS ON WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO BODY.

DWG TITLE

**PE4907**

- 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.

FSCM NO. 53919

CAD FILE 061302

SCALE N/A

SIZE A

127

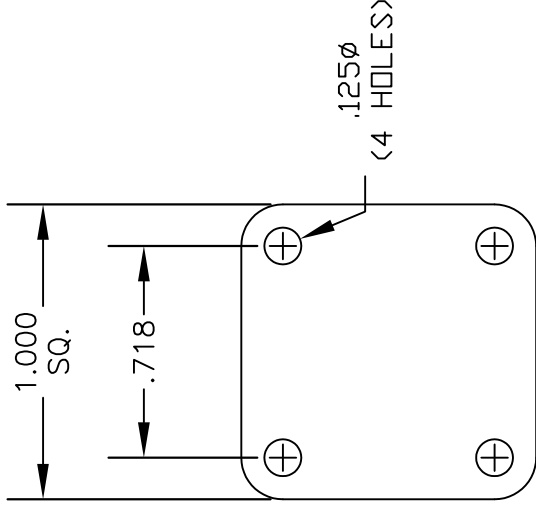
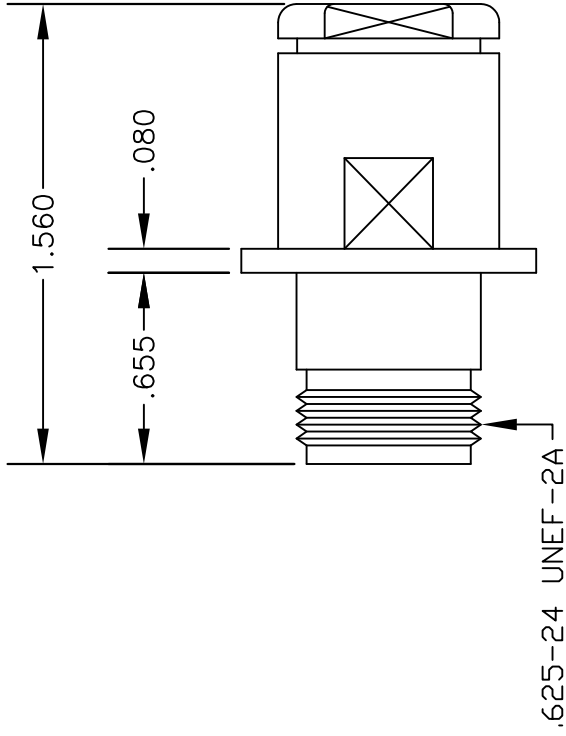


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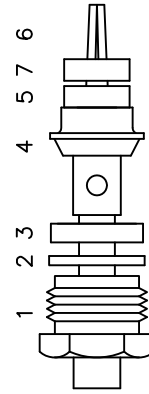
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 P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** www.pasternack.com | **E-Mail:** sales@pasternack.com

**MATERIALS**

|                       |                            |
|-----------------------|----------------------------|
| <b>BODY</b>           | <b>BRASS NICKEL PLATED</b> |
| <b>CONTACT</b>        | <b>GOLD PLATED</b>         |
| <b>INSULATOR</b>      | <b>PTFE</b>                |
| <b>SOLDER ADAPTER</b> | <b>BRASS GOLD PLATED</b>   |

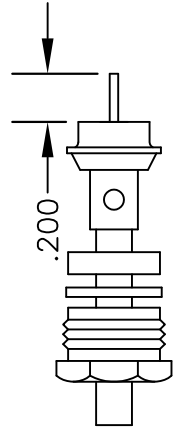
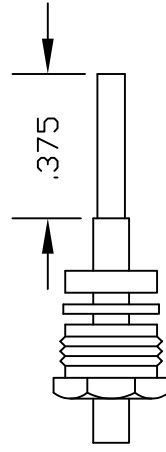


MOUNTING HOLES



ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT (1), WASHER (2) & GASKET (3) OVER CABLE. STRIP CABLE AS SHOWN IN ASSEMBLY (A). DO NOT CUT DIELECTRIC.
2. SLIDE ADAPTER (4) OVER CABLE UNTIL ADAPTER (4) BOTTOMS ON OUTER CONDUCTOR. SOLDER ADAPTER (4) TO OUTER CONDUCTOR USING MINIMUM HEAT.
3. STRIP CABLE AS SHOWN IN ASSEMBLY (B) SLIDE REAR INSULATOR (5). SOLDER CONTACT (6) TO CENTER CONDUCTOR. SLIDE FRONT INSULATOR (7) OVER CONTACT (6) SLIDE ASSEMBLY FORWARD & TIGHTEN TO BODY.



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**COAXIAL & FIBER OPTICS**

|                |  |          |        |
|----------------|--|----------|--------|
| DWG TITLE      | DES. N FEMALE, PANEL MOUNT, SOLDER/CLAMP ATTACHMENT FOR RG401, PE-SR401AL & PE-SR401FL |          |        |
| <b>PE44071</b> |  |          |        |
| SIZE A         | FSCM NO. 53919   | CAD FILE | 052504 |
|                |  | SCALE    | N/A    |
|                |  |          | 127    |

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## Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

### TECHNICAL DATA SHEET

PE-SR401FL

Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

#### Configuration

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

#### Electrical Specifications

|                                  |            |
|----------------------------------|------------|
| Impedance, Ohms                  | 50         |
| Velocity of Propagation, %       | 69.5       |
| Maximum Operating Frequency, GHz | 18         |
| Capacitance, pF/ft [pF/m]        | 29 [95.14] |
| Maximum Operating Voltage, Volts | 3,500      |

#### Electrical Specifications by Frequency

##### Frequency 1

|                                 |             |
|---------------------------------|-------------|
| Frequency, MHz                  | 500         |
| Attenuation, dB/100ft [dB/100m] | 5.2 [17.06] |

##### Frequency 2

|                                 |             |
|---------------------------------|-------------|
| Frequency, MHz                  | 1000        |
| Attenuation, dB/100ft [dB/100m] | 7.6 [24.93] |

##### Frequency 3

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 5            |
| Attenuation, dB/100ft [dB/100m] | 19.2 [62.99] |

##### Frequency 4

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 10          |
| Attenuation, dB/100ft [dB/100m] | 29.9 [98.1] |

##### Frequency 5

|                                 |               |
|---------------------------------|---------------|
| Frequency, GHz                  | 18            |
| Attenuation, dB/100ft [dB/100m] | 44.2 [145.01] |

#### Mechanical Specifications

##### Temperature

|                        |             |
|------------------------|-------------|
| Operating Range, deg C | -55 to +125 |
|------------------------|-------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR401FL](#)

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## Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor

### TECHNICAL DATA SHEET

PE-SR401FL

#### Inner Conductor

|                   |              |
|-------------------|--------------|
| Number of Strands | 1            |
| Material          | Copper       |
| Plating           | Silver       |
| Diameter, in [mm] | 0.066 [1.68] |

#### Dielectric:

|                   |             |
|-------------------|-------------|
| Type              | PTFE        |
| Diameter, in [mm] | 0.21 [5.33] |

#### Shield:

|                   |                     |
|-------------------|---------------------|
| Number of         | 1                   |
| Material 1        | Tinned Copper Braid |
| Diameter, in [mm] | 0.25 [6.35]         |

#### Jacket:

|                                       |              |
|---------------------------------------|--------------|
| One Time Minimum Bend Radius, in [mm] | 1.18 [29.97] |
| Repeated Minimum Bend Radius, in [mm] | 4.7 [119.38] |
| Weight, lbs/ft [Kg/m]                 | 0.088 [0.13] |

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

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

#### Plotted and Other Data

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

Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

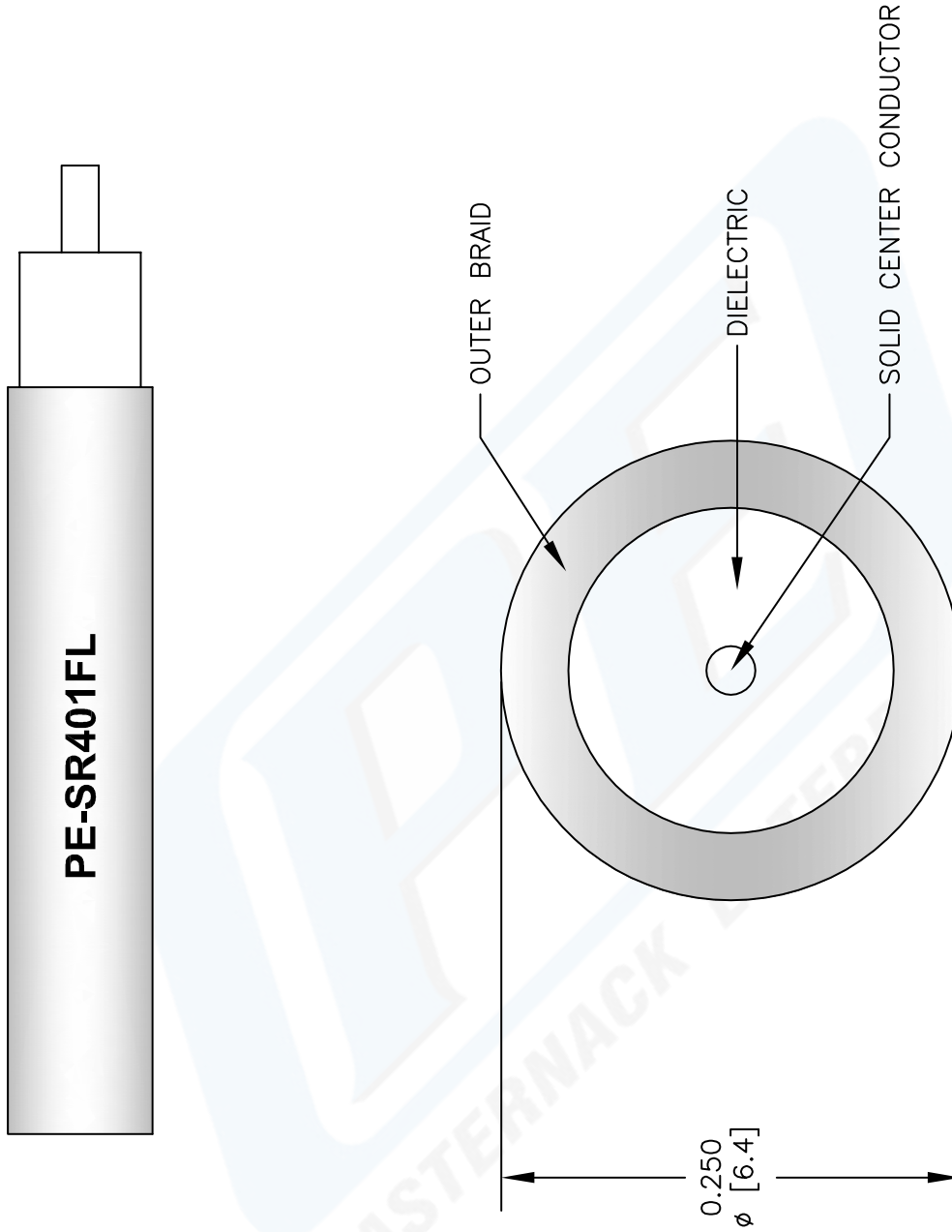
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor PE-SR401FL](#)

URL: <http://www.pasternack.com/formable-0.250-semirigid-replacement-50-ohm-coax-cable-tinned-braid-pe-sr401fl-p.aspx>

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# PE-SR401FL CAD Drawing

Formable 250 Semi-rigid Coax Cable with Tinned Copper Braid Outer Conductor



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DWG TITLE  
**PE-SR401FL**

|        |                |                   |           |        |     |
|--------|----------------|-------------------|-----------|--------|-----|
| REV. B | FSCM NO. 53919 | CAD FILE 072408-B | SCALE N/A | SIZE A | 147 |
|--------|----------------|-------------------|-----------|--------|-----|

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