



## 3.5mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

PE4982

#### Configuration

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex

#### Features

- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4982 3.5mm male connector with clamp/solder attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN and RG405 is part of our full line of RF components available for same-day shipping.

Our 3.5mm male connector PE4982 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

|               |                                  |
|---------------|----------------------------------|
| <b>Size</b>   |                                  |
| Length        | 0.94 in [23.88 mm]               |
| Width/Dia.    | 0.312 in [7.92 mm]               |
| Weight        | 0.016 lbs [7.26 g]               |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] |

#### Material Specifications

| Description  | Material                   | Plating                            |
|--------------|----------------------------|------------------------------------|
| Contact      | Beryllium Copper           | Gold over Nickel<br>50 µin minimum |
| Insulation   | PCTFE                      |                                    |
| Body         | Passivated Stainless Steel | SAE-AMS-2700                       |
| Coupling Nut | Passivated Stainless Steel | SAE-AMS-2700                       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE4982](#)



## 3.5mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

PE4982

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

#### Plotted and Other Data

Notes:

3.5mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 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.

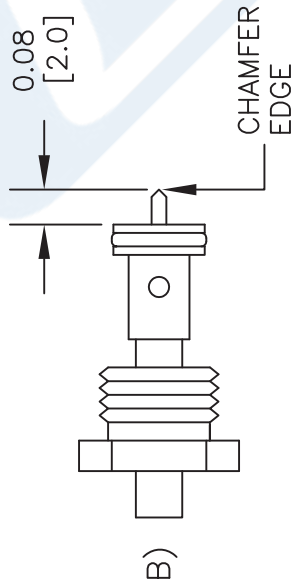
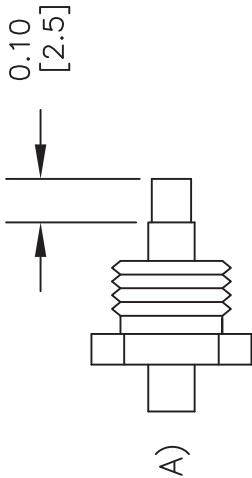
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE4982](#)

URL: <https://www.pasternack.com/3.5mm-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe4982-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.

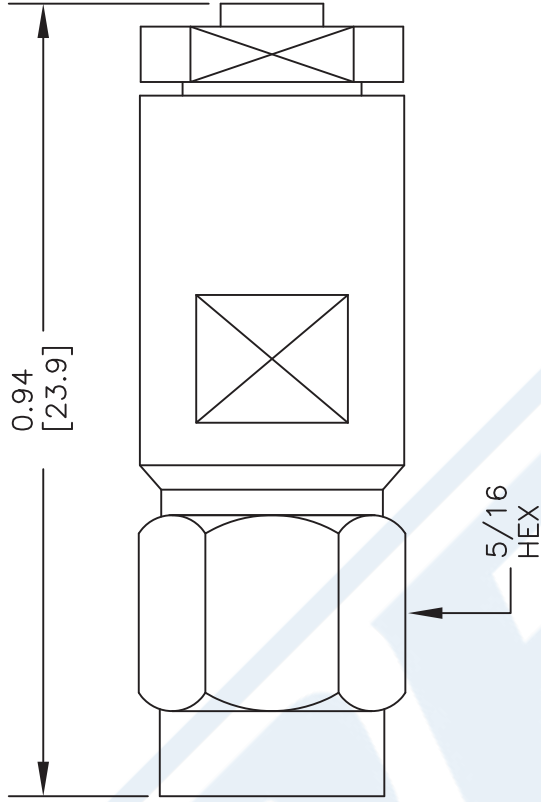
# PE4982 CAD Drawing

3.5mm Male Connector Clamp/Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



## ASSEMBLY PROCEDURES

1. SLIDE CLAMP NUT OVER CABLE. STRIP CABLE AS SHOWN IN (A). DO NOT NICK DIELECTRIC.
2. INSERT CABLE THRU ADAPTER UNTIL IT BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO ADAPTER & TRIM DIELECTRIC AS SHOWN IN (B).
3. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.



DWG TITLE

**PE4982**

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

2233

**PE PASTERNAK®**

Pasternack Enterprises, Inc.

P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)



## Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

PE44492

#### Configuration

- Mini SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 Interface Type
- Solder Attachment

#### Features

- Max. Operating Frequency 65 GHz
- Gold Plated Beryllium Copper Contact
- Blind Mate Connector

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44492 Mini SMP female connector with solder attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN and RG405 is part of our full line of RF components available for same-day shipping. Our Mini SMP female connector operates up to a maximum frequency of 65 GHz. The Pasternack 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.

Our Mini SMP female connector PE44492 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      |         | 65      | GHz   |
| Operating Voltage (AC)        |         |         | 325     | Vrms  |
| Inner Conductor DC Resistance |         |         | 6       | mOhms |
| Outer Conductor DC Resistance |         |         | 2       | mOhms |
| Insulation Resistance         | 5,000   |         |         | MOhms |

#### Performance by Frequency

| Description     | F1       | F2         | F3         | F4 | F5 | Units |
|-----------------|----------|------------|------------|----|----|-------|
| Frequency Range | DC to 18 | 18 to 26.5 | 26.5 to 50 |    |    | GHz   |
| VSWR, Max       | 1.11:1   | 1.23:1     | 1.5:1      |    |    |       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE44492](#)



Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

RF Connectors Technical Data Sheet

PE44492

Electrical Specification Notes:

Insertion loss =  $0.05 \times \sqrt{f(\text{GHz})}$  dB max up to 26.5 GHz.

**Mechanical Specifications**

**Size**

|            |                      |
|------------|----------------------|
| Length     | 0.343 in [8.71 mm]   |
| Width/Dia. | 0.138 in [3.51 mm]   |
| Weight     | 0.00224 lbs [1.02 g] |

**Material Specifications**

| Description | Material         | Plating |
|-------------|------------------|---------|
| Contact     | Beryllium Copper | Gold    |
| Insulation  | PTFE             |         |
| Body        | Beryllium Copper | Gold    |

Mechanical Specification Notes:

Mating cycles: 500 (smooth bore), 100 (full detent) minimum.

**Environmental Specifications**

**Temperature**

|                 |                                      |
|-----------------|--------------------------------------|
| Operating Range | -55 to +155 deg C                    |
| Humidity        | MIL-STD-202, Method 106              |
| Shock           | MIL-STD-202, Method 213, Condition A |
| Vibration       | MIL-STD-202, Method 204, Condition A |
| Thermal Shock   | MIL-STD-202, Method 107, Condition B |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE44492](#)



## Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

### RF Connectors Technical Data Sheet

PE44492

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

#### Plotted and Other Data

Notes:

Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 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.

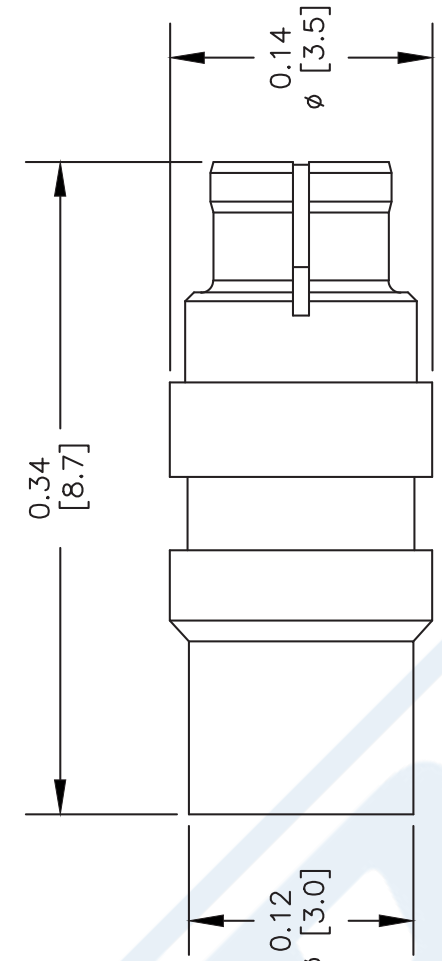
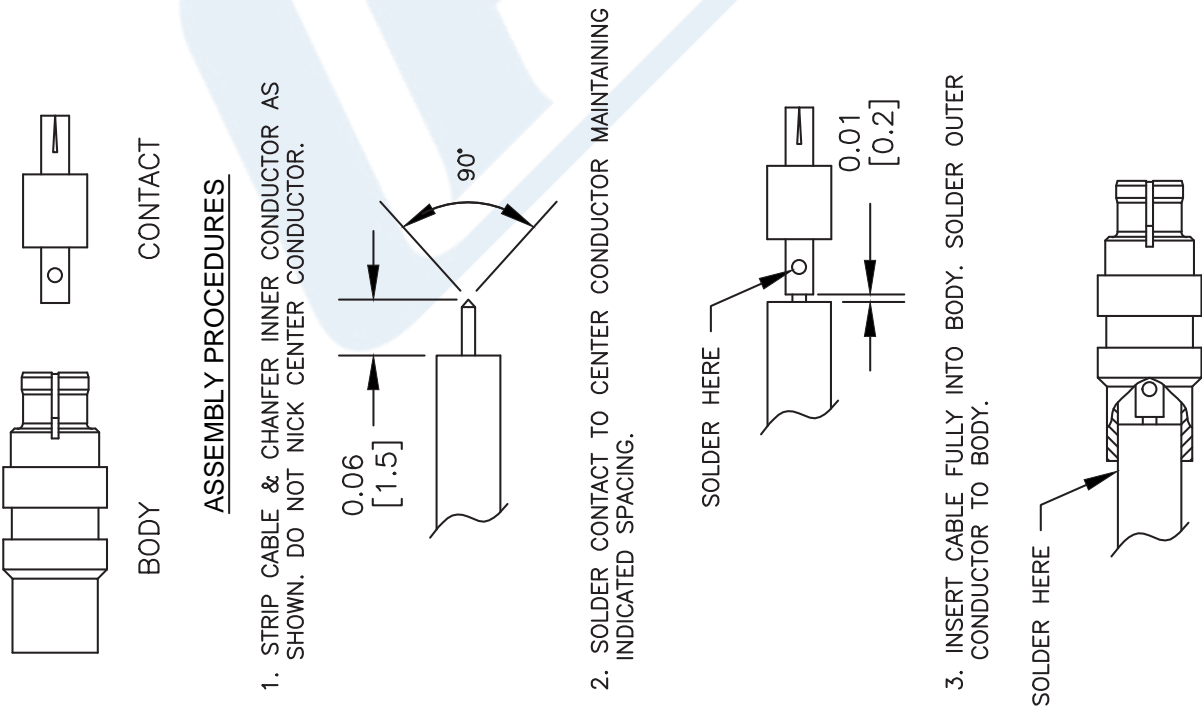
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URL: <https://www.pasternack.com/mini-smp-female-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44492-p.aspx>

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PE44492 CAD Drawing

Mini SMP Female Connector Solder Attachment for PE-SR405AL,  
PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405



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.

|           |  |                |  |                   |  |        |      |
|-----------|--|----------------|--|-------------------|--|--------|------|
| DWG TITLE |  | FSCM NO. 53919 |  | CAD FILE 021413-A |  | SIZE A | XXXX |
| PE44492   |  |                |  |                   |  |        |      |



**PASTERNAK®**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

086 Semi-rigid Coax Cable with Tinned  
Aluminum Outer Conductor

**TECHNICAL DATA SHEET**

**PE-SR405AL**

086 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    |
| Maximum Operating Frequency, GHz      | 40    |
| Dielectric Withstanding Voltage, Vrms | 5,000 |

**Electrical Specifications by Frequency**

**Frequency 1**

|                                 |            |
|---------------------------------|------------|
| Frequency, MHz                  | 1000       |
| Attenuation, dB/100ft [dB/100m] | 23 [75.46] |
| Power Handling, Watts           | 130        |

**Frequency 2**

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 10          |
| Attenuation, dB/100ft [dB/100m] | 81 [265.75] |
| Power Handling, Watts           | 35          |

**Frequency 3**

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 20           |
| Attenuation, dB/100ft [dB/100m] | 131 [429.79] |
| Power Handling, Watts           | 20           |

**Mechanical Specifications**

**Temperature**

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

**Inner Conductor**

|                   |                   |
|-------------------|-------------------|
| Number of Strands | 1                 |
| Material          | Copper Clad Steel |
| Plating           | Silver            |
| Diameter, in [mm] | 0.02 [0.51]       |

**Dielectric:**

|                   |              |
|-------------------|--------------|
| Type              | PTFE         |
| Diameter, in [mm] | 0.066 [1.68] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

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## 086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor

### TECHNICAL DATA SHEET

**PE-SR405AL****Shield:**

|                   |                 |
|-------------------|-----------------|
| Number of         | 1               |
| Material 1        | Tinned Aluminum |
| Diameter, in [mm] | 0.086 [2.18]    |

**Jacket:**

|                       |              |
|-----------------------|--------------|
| Weight, lbs/ft [Kg/m] | 0.008 [0.01] |
|-----------------------|--------------|

**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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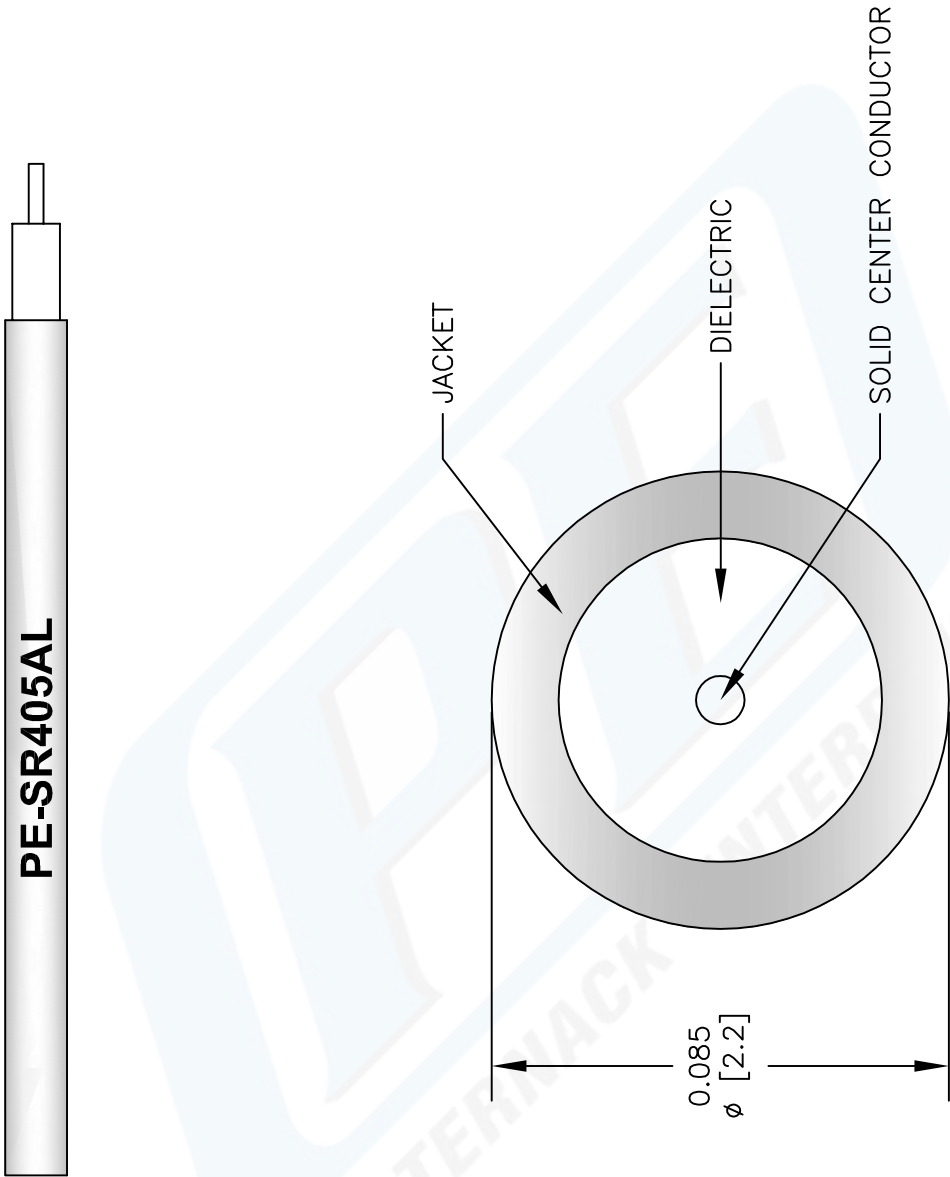
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor PE-SR405AL](#)

URL: <http://www.pasternack.com/semirigid-0.085-50-ohm-coax-cable-tinned-aluminum-pe-sr405al-p.aspx>

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PE-SR405AL CAD Drawing

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor



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DWG TITLE  
**PE-SR405AL**

REV. A | FSCM NO. 53919

147

SIZE A

SCALE N/A

CAD FILE 022808-A

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Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)