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# SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter



RF Connectors
Technical Data Sheet

PE44483

## Configuration

- Limited Detent SMP Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, PE-SR405FLJ, PE-SR405TN
- Bulkhead

## Features

- Max. Operating Frequency 26.5 GHz
- Good VSWR of 1.29:1
- Gold Plated Brass Contact
- Blind Mate Connector

## Applications

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

### Description

Pasternack's PE44483 SMP male limited detent bulkhead connector with solder/solder attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, PE-SR405FLJ and PE-SR405TN (4.83 mm diameter) is part of our full line of RF components available for same-day shipping. Our SMP male connector operates up to a maximum frequency of 26.5 GHz and offers good VSWR of 1.29:1. 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. This SMP bulkhead 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 SMP male bulkhead connector PE44483 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 | | 26.5 | GHz |
| VSWR | | | 1.29:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Test Voltage (AC) | | | 500 | Vrms |
| Inner Conductor DC Resistance | | | 6 | mOhms |
| Outer Conductor DC Resistance | | | 2 | 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: SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter PE44483

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# SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter

RF Connectors
Technical Data Sheet

PE44483

### Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency Range | DC to 4 | 4 to 12 | 12 to 26.5 | | | GHz |
| VSWR, Max | 1.07:1 | 1.23:1 | 1.29:1 | | | |

Electrical Specification Notes:
Insertion loss = 0.05 x sqrt(fGHz) dB max up to 12 GHz.

## Mechanical Specifications

### Size

| | |
|---|---|
| Length | 0.39 in [9.91 mm] |
| Width/Dia. | 0.25 in [6.35 mm] |
| Weight | 0.005 lbs [2.27 g] |
| Mating Cycles | 500 Cycles |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Gold |
| Insulation | PTFE | |
| Body | Brass | Gold |

## Environmental Specifications

### Temperature

| | |
|---|---|
| Operating Range | -65 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 B |
| Thermal Shock | MIL-STD-202, Method 107, Condition B |

## 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: SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter PE44483

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# SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter



## RF Connectors
## Technical Data Sheet

PE44483

SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter 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: SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter PE44483

URL: https://www.pasternack.com/smp-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44483-p.aspx

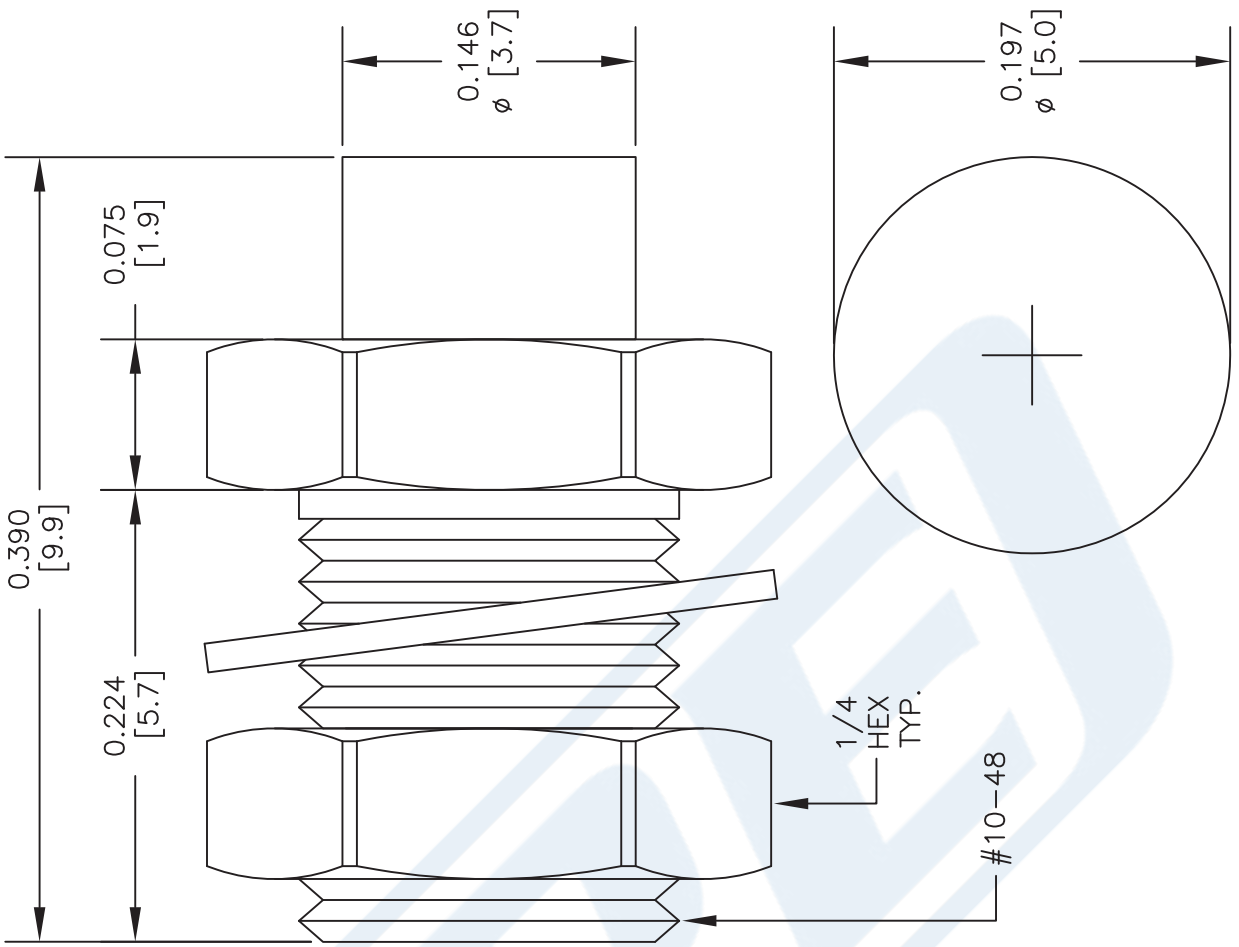
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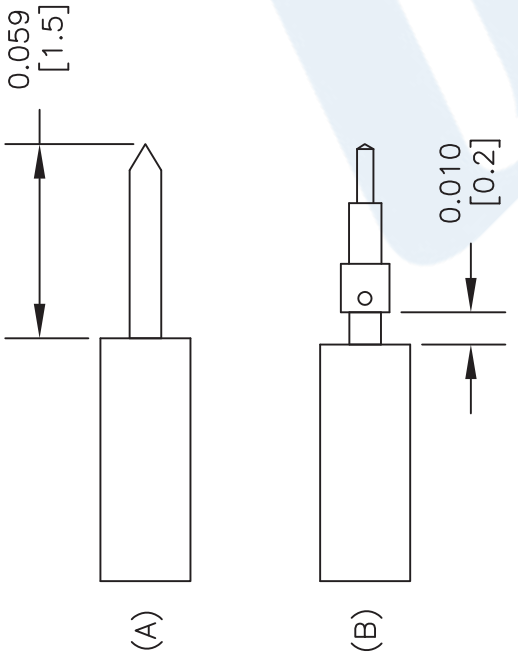
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# PE44483 CAD Drawing

SMP Male Bulkhead Mount Limited Detent Connector Solder Attachment for RG405, RG405 Tinned, PE-SR405FL, PE-SR405AL, 4.83 mm Diameter




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT (1) TO CENTER CONDUCTOR AS SHOWN IN (B).
3. SLIDE BUSHING (2) OVER CONTACT UNTIL IT STOPS.
4. INSERT ASSEMBLY (1 & 2) INTO CONNECTOR BODY, UNTIL IT BOTTOMS OUT.
5. SOLDER CONNECTOR BODY TO CABLE.

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.

| CAD FILE | 052814 | SCALE N/A | SIZE A | 2233 |
|---|---|---|---|---|

DWG TITLE **PE44483**

**FSCM NO. 53919**


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# 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
- Connector Interface Types: PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405

## Features

- Max. Operating Frequency 40 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 40 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 | | 40 | 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 40 | | | GHz |
| VSWR, Max | 1.11:1 | 1.23:1 | 1.5:1 | | | |

Electrical Specification Notes:
Insertion loss = 0.05 x sqrt(fGHz) dB max up to 26.5 GHz.

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

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

## RF Connectors
## Technical Data Sheet

**PE44492**

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.343 in [8.71 mm] |
| Width/Dia. | 0.138 in [3.51 mm] |
| Height | 0 in [0 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 |

### 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: Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR-405FLJ, PE-SR405TN, RG405 PE44492

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

## RF Connectors
## Technical Data Sheet

**PE44492**

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 99.4% 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: Mini SMP Female Connector Solder Attachment for PE-SR405AL, PE-SR405FL, PE-SR405FLJ, PE-SR405TN, RG405 PE44492

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

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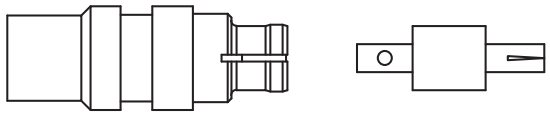
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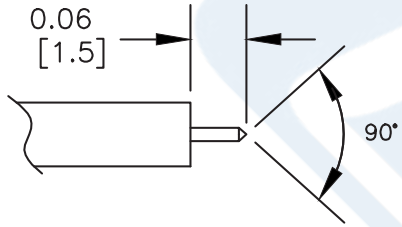
# PE44492 CAD Drawing

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

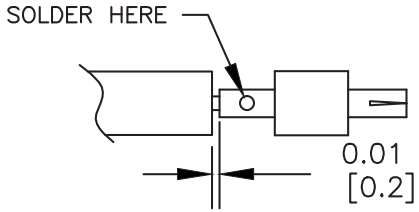



## ASSEMBLY PROCEDURES

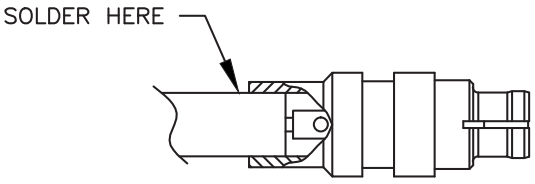
1. STRIP CABLE & CHANFER INNER CONDUCTOR AS SHOWN. DO NOT NICK CENTER CONDUCTOR.

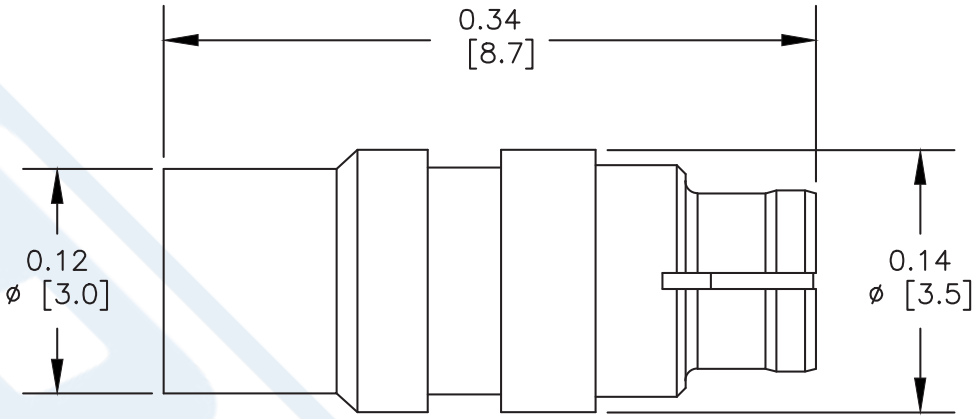



2. SOLDER CONTACT TO CENTER CONDUCTOR MAINTAINING INDICATED SPACING.




3. INSERT CABLE FULLY INTO BODY. SOLDER OUTER CONDUCTOR TO BODY.




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DWG TITLE

**PE44492**

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. A | FSCM NO. 53919 | CAD FILE 021413-A | SCALE N/A | SIZE A | XXXX |
|---|---|---|---|---|---|

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# 086 Semi-rigid Coax Cable with Copper Outer Conductor

## TECHNICAL DATA SHEET RG405/U

086 Semi-rigid Coax Cable with Copper Outer Conductor

### Configuration

| | |
|---|---|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Shield Materials | Copper |
| Jacket Material and Color | Tan |

### 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] | 22 [72.18] |
| Power Handling, Watts | 130 |

**Frequency 2**

| | |
|---|---|
| Frequency, GHz | 10 |
| Attenuation, dB/100ft [dB/100m] | 80 [262.47] |
| Power Handling, Watts | 35 |

**Frequency 3**

| | |
|---|---|
| Frequency, GHz | 20 |
| Attenuation, dB/100ft [dB/100m] | 120 [393.7] |
| 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 Copper Outer Conductor RG405/U

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# 086 Semi-rigid Coax Cable with Copper Outer Conductor

## TECHNICAL DATA SHEET RG405/U

**Shield:**

| | |
|---|---|
| Number of | 1 |
| Material 1 | Copper |
| Diameter, in [mm] | 0.087 [2.21] |

**Jacket:**

| | |
|---|---|
| Color | Tan |
| One Time Minimum Bend Radius, in [mm] | 0.05 [1.27] |
| Weight, lbs/ft [Kg/m] | 0.015 [0.02] |

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

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

**Plotted and Other Data**

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

086 Semi-rigid Coax Cable with Copper 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: 086 Semi-rigid Coax Cable with Copper Outer Conductor RG405/U

URL: http://www.pasternack.com/semirigid-0.085-rg405-50-ohm-coax-cable-copper-rg405-u-p.aspx

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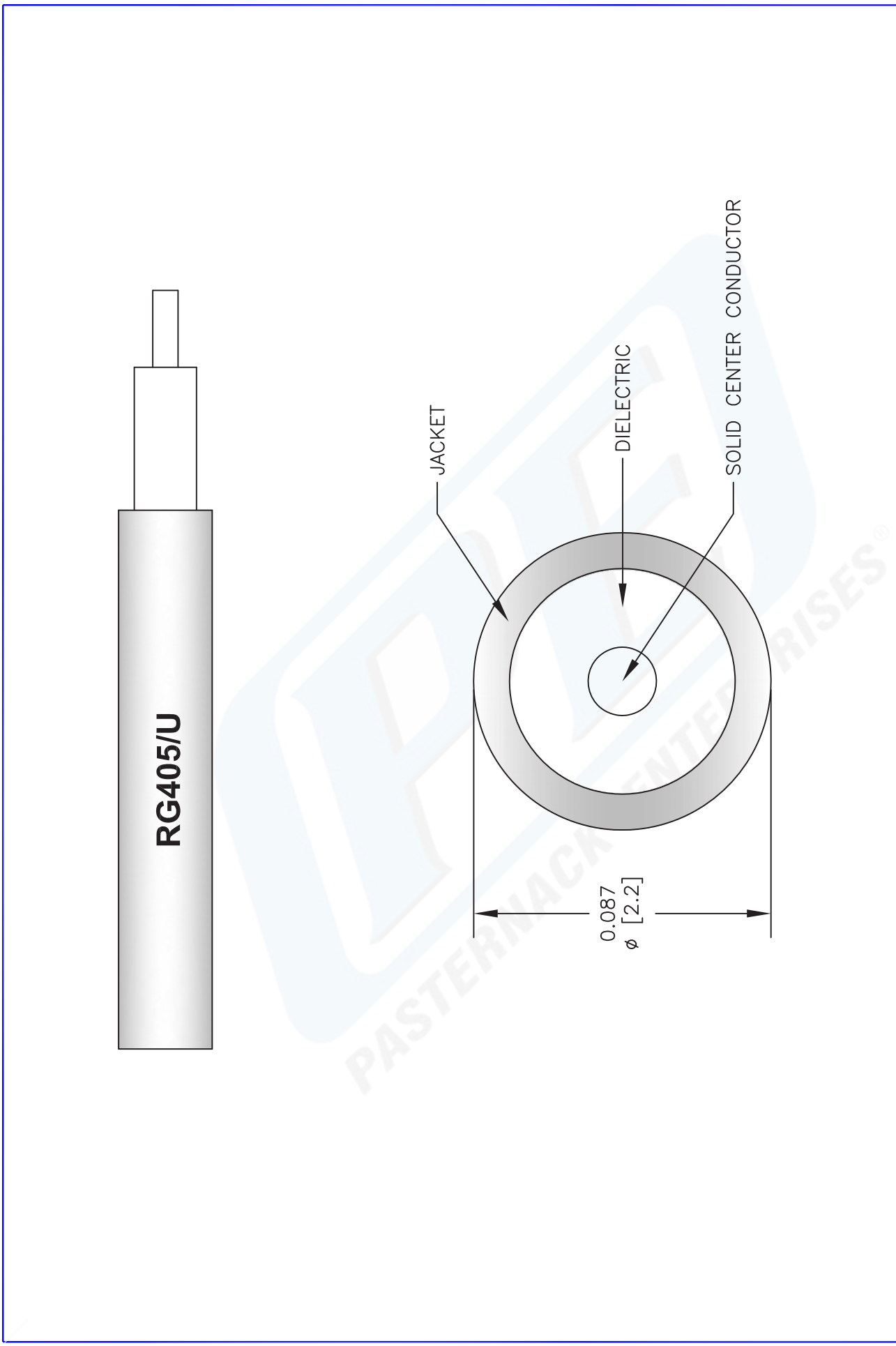
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# RG405/U CAD Drawing

086 Semi-rigid Coax Cable with Copper Outer Conductor




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].

| | | | |
|---|---|---|---|
| DWG TITLE RG405/U | CAD FILE 022908 | SCALE N/A | SIZE A |
| FSCM NO. 53919 | | | 2233 |

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