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# 1.0/2.3 Jack Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .235 inch D Hole



RF Connectors Technical Data Sheet PE44256

## Configuration

- 1.0/2.3 Jack Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, PE-SR405FL, RG405 Interface Type
- Solder/Solder Attachment
- Bulkhead

## Features

- Gold Plated Beryllium Copper Contact
- 30 µin minimum contact plating

## Applications

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

### Description

Pasternack's PE44256 1.0/2.3 jack bulkhead connector with solder/solder attachment for PE-SR405AL, PE-SR405FL and RG405 (.235 inch D hole) is part of our full line of RF components available for same-day shipping. This 1.0/2.3 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 1.0/2.3 jack bulkhead connector PE44256 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 | 0.984 in [24.99 mm] |
| Width/Dia. | 0.433 in [11.00 mm] |
| Weight | 0.013 lbs [5.9 g] |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold<br>30 µin minimum |
| Insulation | PTFE | |
| Body | Brass | Gold<br>3 µin minimum |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.0/2.3 Jack Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .235 inch D Hole PE44256

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# 1.0/2.3 Jack Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .235 inch D Hole

## RF Connectors Technical Data Sheet PE44256

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

1.0/2.3 Jack Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .235 inch D Hole 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: 1.0/2.3 Jack Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .235 inch D Hole PE44256

URL: https://www.pasternack.com/1.0-2.3-jack-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44256-p.aspx

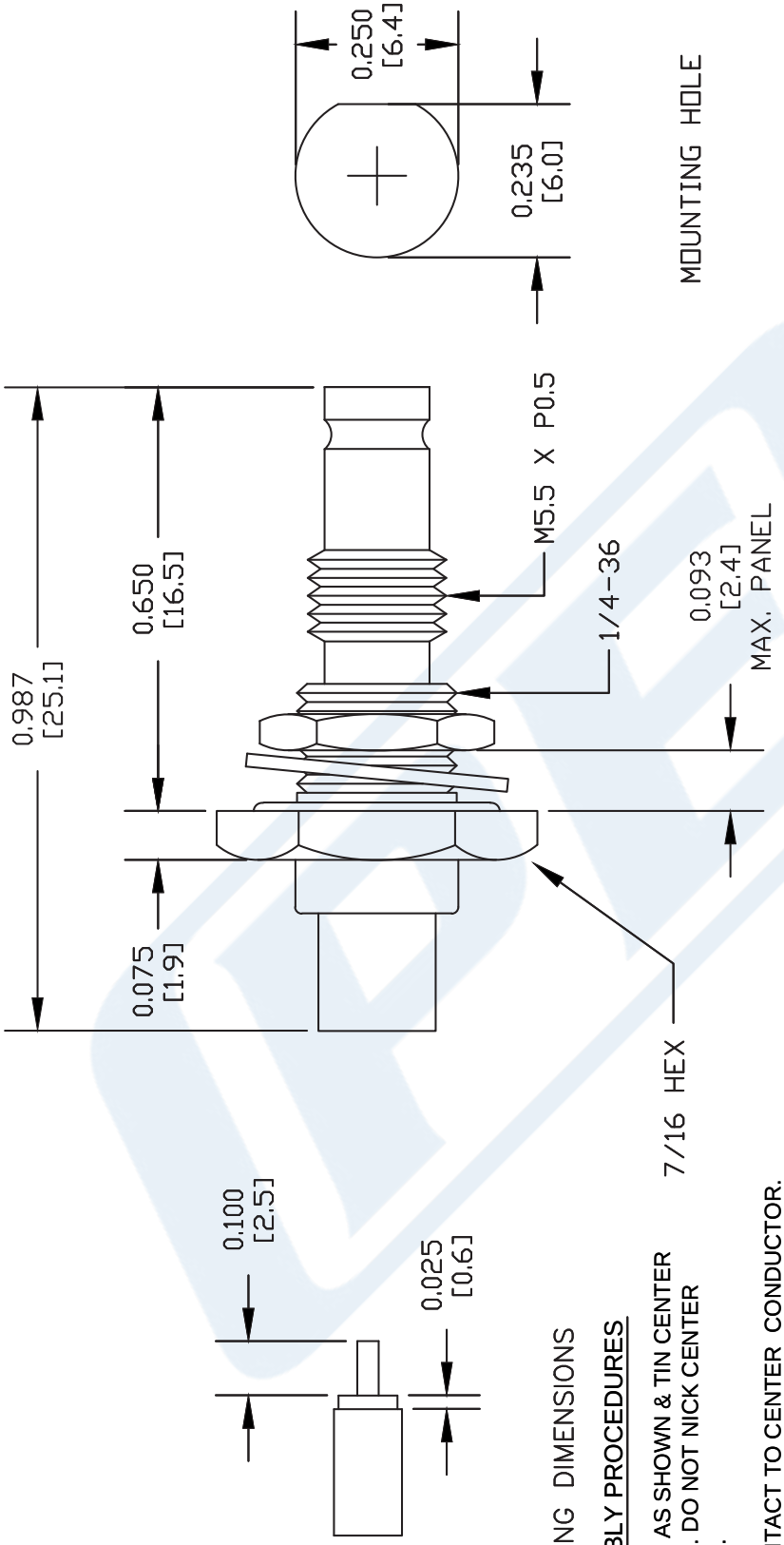
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# PE44256 CAD Drawing

1.0/2.3 Jack Bulkhead Mount Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405, .235 inch D Hole




STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN & TIN CENTER CONDUCTOR. DO NOT NICK CENTER CONDUCTOR.
2. SOLDER CONTACT TO CENTER CONDUCTOR.
3. INSERT CABLE INTO BODY UNTIL OUTER CONDUCTOR BOTTOMS OUT. SOLDER OUTER CONDUCTOR TO BODY.

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 | CAD FILE | SCALE | SIZE |
|---|---|---|---|
| PE44256 | 080702 | N/A | A |

FSCM NO. 53919

127


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# 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ

## RF Connectors Technical Data Sheet PE45414

### Configuration

- 2.4mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR405AL, RG405, PE-SR405FLJ Interface Type
- Solder Attachment
- 5/16 inch Hex

### Features

- Max. Operating Frequency 50 GHz
- Excellent VSWR of 1.16:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE45414 2.4mm male connector with solder attachment for PE-SR405AL, RG405 and PE-SR405FLJ is part of our full line of RF components available for same-day shipping. Our 2.4mm male connector operates up to a maximum frequency of 50 GHz and offers excellent VSWR of 1.16:1.

Our 2.4mm male connector PE45414 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 | | 50 | GHz |
| VSWR | | | 1.16:1 | |
| Insertion Loss | | | 0.283 | dB |
| Operating Voltage (AC) | | | 335 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| High Potential Voltage 5 to 7.5 MHz | | | 670 | Vrms |
| Corona Discharge at 70,000 ft | | | 250 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |
| RF Leakage | -90 | | | dB |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45414

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# 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ

## RF Connectors Technical Data Sheet PE45414

### Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency Range | DC to 18 | 18 to 26.5 | 26.5 to 40 | 40 to 50 | | GHz |
| VSWR, Max | 1.1:1 | 1.12:1 | 1.14:1 | 1.16:1 | | |

Electrical Specification Notes:
Insertion loss: 0.04 x sqrt(fGHz) dB.

## Mechanical Specifications

### Size

| | |
|---|---|
| Length | 0.58 in [14.73 mm] |
| Width/Dia. | 0.312 in [7.92 mm] |
| Height | 0.35 in [8.89 mm] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 8 to 10 in-lbs [0.90 to 1.13 Nm] |

### Material Specifications

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold over Nickel 50 µin minimum |
| Insulation | PEI | |
| Body | Beryllium Copper | Gold over Nickel 50 µin minimum |
| Coupling Nut | Passivated Stainless Steel | ASTM-A582 |
| Retaining Ring | Beryllium Copper | |
| Gasket | Silicone Rubber | |

## Environmental Specifications

### Temperature

| | |
|---|---|
| Operating Range | -65 to +150 deg C |
| Shock | MIL-STD-202, Method 213, Condition I |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Thermal Shock | MIL-STD-202, Method 107, Condition B |
| Salt Spray | MIL-STD-202, Method 101, Condition B, 5% salt solution |

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45414

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# 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ



**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: 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45414

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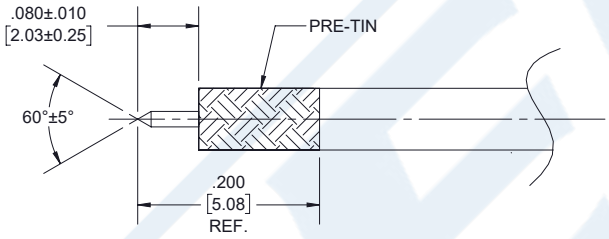


# 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ



**Assembly Instruction**

## Assembly Instructions

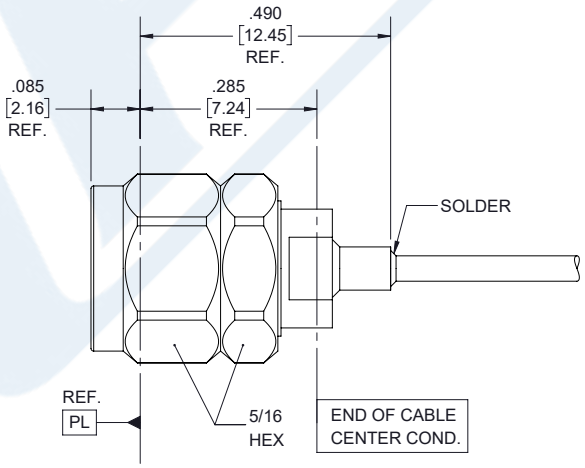



**STEP 1**:

- PRE-TIN CABLE OUTER JACKET OVER APPROX. LENGTH SHOWN.
- TRIM CABLE TO EXPOSE CENTER CONDUCTOR AS SHOWN.
- POINT CENTER CONDUCTOR AS INDICATED.

**STEP 2**:

- INSERT CABLE INTO CONNECTOR UNTIL CENTER CONDUCTOR PLUGS IN AND CABLE SEATS IN CONNECTOR BORE.
- SOLDER CABLE JACKET TO BODY WHERE SHOWN APPLYING HEAT TO EXTENDED BODY TAIL.




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# 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ

## RF Connectors Technical Data Sheet PE45414

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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: 2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ PE45414

URL: https://www.pasternack.com/2.4mm-male-pe-sr405al-rg405-pe-sr405flj-connector-pe45414-p.aspx

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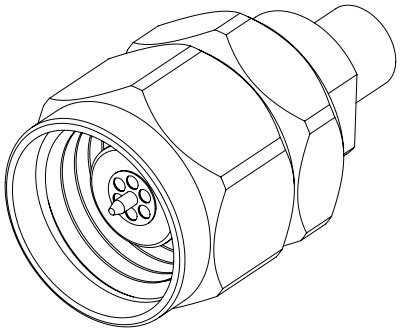
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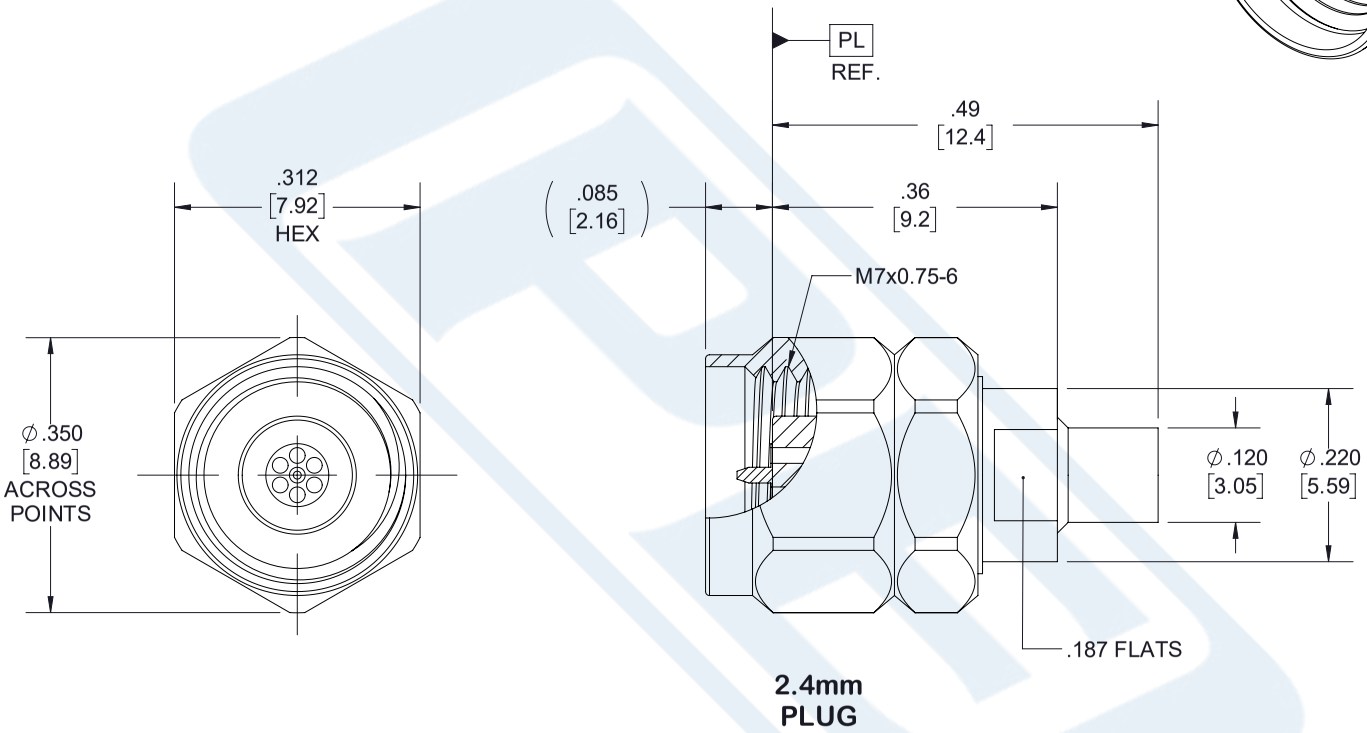
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# PE45414 CAD Drawing

2.4mm Male Connector Solder Attachment for PE-SR405AL, RG405, PE-SR405FLJ






**2.4mm PLUG**

| STANDARD TOLERANCES | |
|---|---|
| .X | ±0.2 |
| .XX | ±0.02 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE

PE45414

NOTES:
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2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

| CAGE CODE 53919 | CAD FILE 110217 | SCALE N/A | SIZE A | 7361 |
|---|---|---|---|---|

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

## RF Cables
## Technical Data Sheet

**PE-SR405AL**

### Configuration

- Semi-Rigid Cable
- 1 Shield(s)

### Features

- Tinned Aluminum Outer Conductor
- Max Frequency 40 GHz

### Applications

- Test and Measurement
- Communication Systems
- Wireless Systems
- Medical Equipment
- RADAR
- Low Loss Applications
- Field Installations

### Description

Semi-rigid coaxial cable provides the highest electrical performance including low loss and high RF shielding effectiveness, which is why it is the cable type of choice for many RF and microwave engineers. Pasternack's PE-SR405AL is a .086 semi-rigid coax cable constructed with silver plated copper clad steel inner conductor, solid PTFE dielectric and tinned aluminum outer conductor. This .086 semi-rigid cable has a maximum operating frequency of 40 GHz and is designed as a superior alternative to the standard RG-405 cable. Semi-rigid cable is used in a wide variety of applications including when higher operating frequency or precision performance is required. PE-SR405AL .086 semi-rigid coaxial cable datasheet specifications and outline drawing are shown in the PDF below.

Pasternack carries a wide range of cables ready to ship same day to fit your needs. They are available in corrugated, flexible, formable or semi-rigid versions with different constructions of conductor materials, dielectric materials, shielding configurations and jacket materials. Our cables are designed to fit a wide range of performance criteria including attenuation, operating temperature, environmental factor, and power capability.

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | DC | | 40 | GHz |
| Impedance | | 50 | | Ohms |
| Dielectric Withstanding Voltage (AC) | | | 5,000 | Vrms |

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

## RF Cables
## Technical Data Sheet

## PE-SR405AL

### Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---|---|---|---|---|---|---|
| Frequency | 1 | 10 | 20 | | | GHz |
| Attenuation, Max | 23 | 81 | 131 | | | dB/100ft |
| | 75.46 | 265.75 | 429.79 | | | dB/100m |
| Input Power (CW), Max | 130 | 35 | 20 | | | Watts |

### Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 mm]

### Construction Specifications

| Description | Material and Plating | Diameter |
|---|---|---|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strands | 0.02 in [0.51 mm] |
| Conductor Type | Solid | |
| Dielectric | PTFE | 0.066 in [1.68 mm] |
| Outer Conductor | Tinned Aluminum | 0.086 in [2.18 mm] |

### Environmental Specifications

**Temperature**

Operating Range -55 to +125 deg C

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

## RF Cables
## Technical Data Sheet

**PE-SR405AL**

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

Notes:

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

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

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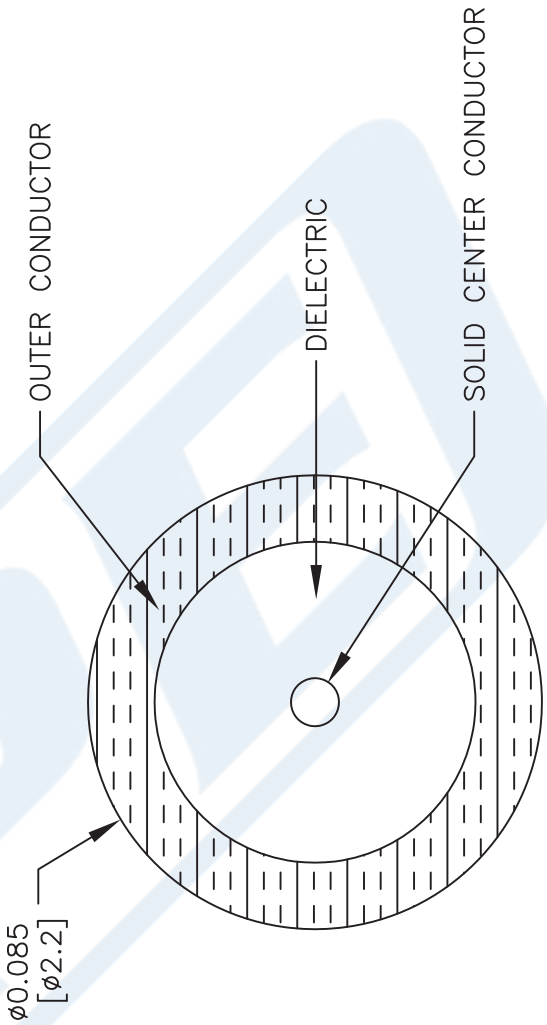
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# PE-SR405AL CAD Drawing

086 Semi-rigid Coax Cable with Tinned Aluminum Outer Conductor




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DWG TITLE
PE-SR405AL

CAD FILE 111716 | SCALE N/A | SIZE A | 41742

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