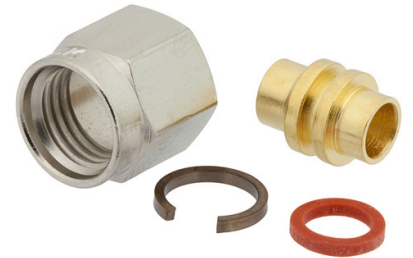


SMA Male Connector Solder (Without Contact)  
Attachment for PE-SR402AL, PE-SR402FL,  
PE-SR402FLJ, PE-SR402TN, RG402



**PE4007**

**Configuration**

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402
- 5/16 inch Hex

**Features**

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.23:1

**Applications**

- General Purpose Test
- Custom Cable Assemblies

**Description**

Pasternack's PE4007 , SMA, Standard, Connector 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 18 GHz and offers excellent VSWR of 1.23:1.

Our SMA male connector PE4007 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      |         | 18      | GHz   |
| VSWR                                 |         |         | 1.23:1  |       |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 2       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2       | mOhms |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| RF Leakage                           | 60      |         |         | dB    |
| Impedance                            |         | 50      |         | Ohms  |

Electrical Specification Notes:  
Insertion loss: 0.06 x sqrt(fGHz) dB max up to 6 GHz.

**Mechanical Specifications**

|               |                                   |
|---------------|-----------------------------------|
| <b>Size</b>   |                                   |
| Length        | 0.44 in [11.18 mm]                |
| Width         | 0.312 in [7.92 mm]                |
| Height        | 0.312 in [7.92 mm]                |
| Weight        | 0.007 lbs [3.18 g]                |
| Mating Cycles | 500 Cycles                        |
| Mating Torque | 3 to 5 in-lbs [[0.34 to 0.57 Nm]] |

SMA Male Connector Solder (Without Contact)  
Attachment for PE-SR402AL, PE-SR402FL,  
PE-SR402FLJ, PE-SR402TN, RG402



**PE4007**

**Material Specifications**

| Description  | Material        | Plating |
|--------------|-----------------|---------|
| Body         | Stainless Steel | Gold    |
| Coupling Nut | Brass           | Nickel  |
| Gasket       | Silicone        |         |
| Washer       | Stainless Steel |         |

**Environmental Specifications**

**Temperature**

Operating Range

-65 to +165 deg C

Vibration

MIL-STD-202, Method 204, Condition B

Temperature Cycle

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

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

**Plotted and Other Data**

Notes:

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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.

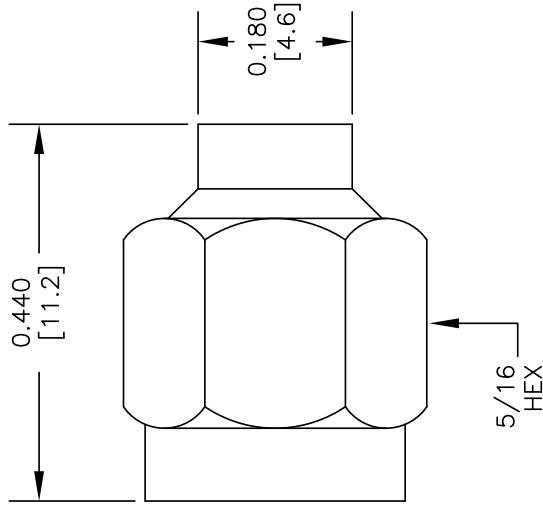
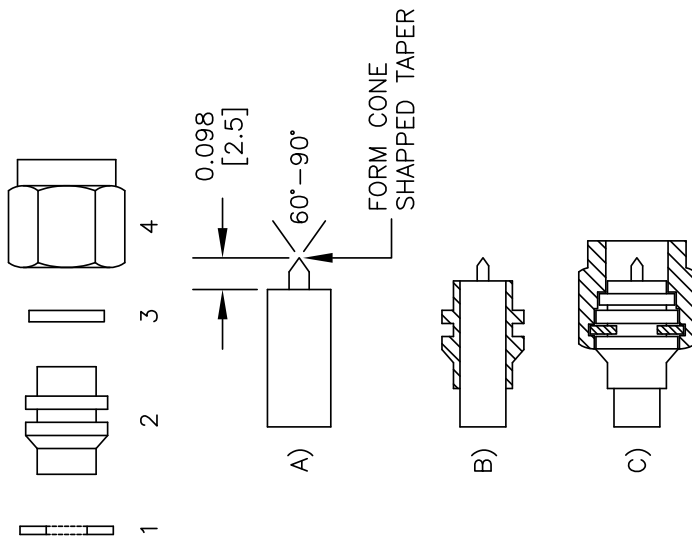
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder \(Without Contact\) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4007](#)

URL: <https://www.pasternack.com/sma-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4007-p.aspx>

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# PE4007 CAD Drawing

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



## STRIPPING DIMENSIONS

### ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY (2) UNTIL OUTER CONDUCTOR FLUSH WITH BODY AS SHOWN IN (B). SOLDER OUTER CONDUCTOR TO BODY.
3. ASSEMBLE GASKET (3), RETAINING RING (1) AND COUPLING NUT (4), AS SHOWN IN (C).

### STANDARD TOLERANCES

|      |        |
|------|--------|
| .X   | ±0.008 |
| .XX  | ±0.004 |
| .XXX | ±0.002 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

**PE4007**

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].

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FSCM NO. 53919

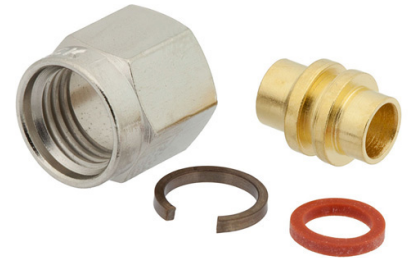
CAD FILE 031416

SCALE N/A

SIZE A

3045

SMA Male Connector Solder (Without Contact)  
Attachment for PE-SR402AL, PE-SR402FL,  
PE-SR402FLJ, PE-SR402TN, RG402



**PE4007**

**Configuration**

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402
- 5/16 inch Hex

**Features**

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.23:1

**Applications**

- General Purpose Test
- Custom Cable Assemblies

**Description**

Pasternack's PE4007 , SMA, Standard, Connector 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 18 GHz and offers excellent VSWR of 1.23:1.

Our SMA male connector PE4007 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      |         | 18      | GHz   |
| VSWR                                 |         |         | 1.23:1  |       |
| Operating Voltage (AC)               |         |         | 500     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Inner Conductor DC Resistance        |         |         | 2       | mOhms |
| Outer Conductor DC Resistance        |         |         | 2       | mOhms |
| Insulation Resistance                | 5,000   |         |         | MOhms |
| RF Leakage                           | 60      |         |         | dB    |
| Impedance                            |         | 50      |         | Ohms  |

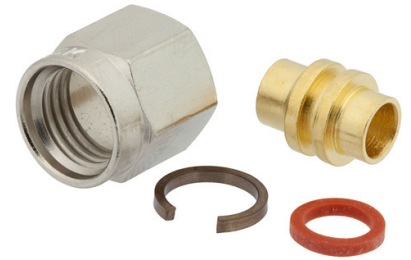
Electrical Specification Notes:  
Insertion loss: 0.06 x sqrt(fGHz) dB max up to 6 GHz.

**Mechanical Specifications**

**Size**

- Length 0.44 in [11.18 mm]
- Width 0.312 in [7.92 mm]
- Height 0.312 in [7.92 mm]
- Weight 0.007 lbs [3.18 g]
- Mating Cycles 500 Cycles
- Mating Torque 3 to 5 in-lbs [[0.34 to 0.57 Nm]]

SMA Male Connector Solder (Without Contact)  
Attachment for PE-SR402AL, PE-SR402FL,  
PE-SR402FLJ, PE-SR402TN, RG402



**PE4007**

**Material Specifications**

| Description  | Material        | Plating |
|--------------|-----------------|---------|
| Body         | Stainless Steel | Gold    |
| Coupling Nut | Brass           | Nickel  |
| Gasket       | Silicone        |         |
| Washer       | Stainless Steel |         |

**Environmental Specifications**

**Temperature**

Operating Range

-65 to +165 deg C

Vibration

MIL-STD-202, Method 204, Condition B

Temperature Cycle

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

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

**Plotted and Other Data**

Notes:

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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.

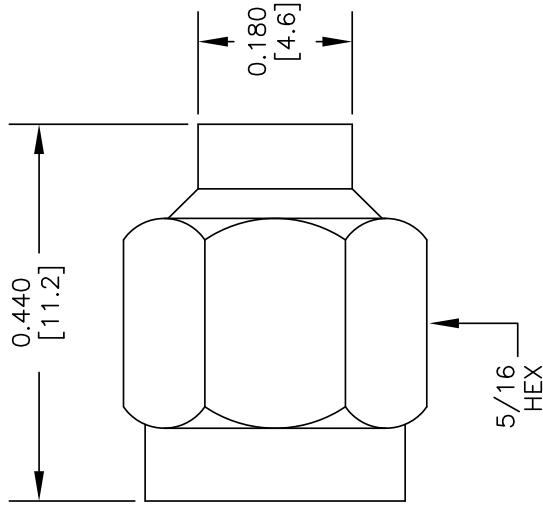
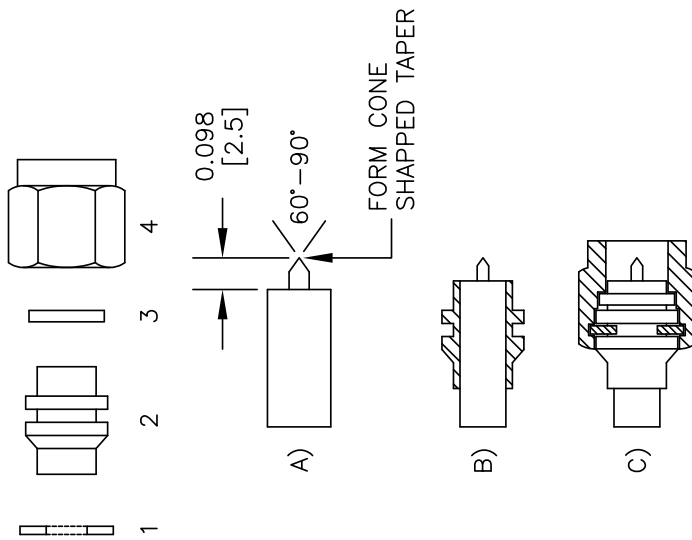
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Solder \(Without Contact\) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4007](#)

URL: <https://www.pasternack.com/sma-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4007-p.aspx>

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# PE4007 CAD Drawing

SMA Male Connector Solder (Without Contact) Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



### STRIPPING DIMENSIONS

### ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE INTO BODY (2) UNTIL OUTER CONDUCTOR FLUSH WITH BODY AS SHOWN IN (B). SOLDER OUTER CONDUCTOR TO BODY.
3. ASSEMBLE GASKET (3), RETAINING RING (1) AND COUPLING NUT (4), AS SHOWN IN (C).

### STANDARD TOLERANCES

|      |        |
|------|--------|
| .X   | ±0.008 |
| .XX  | ±0.004 |
| .XXX | ±0.002 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

**PE4007**

NOTES:  
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 Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 031416

SCALE N/A

SIZE A

3045



# Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections

## RF Cables Technical Data Sheet

PECX007

### Configuration

- Low Loss Semi-Rigid Cable
- 1 Shield(s)

### Features

- Continuous Copper Outer Conductor
- Low Density Microporous Dielectric
- Phase Stability vs. Temperature
- Mechanical Stability vs. Temperature
- High Isolation
- Supplied in 5 foot maximum straight lengths

### Applications

- Low Loss Cabling
- Phase Matched Microporous Cables
- High Isolation Interconnects
- Surface Mount Cabling
- Semi-Rigid Cable Assemblies

### Description

Pasternack's PECX007 low loss semi-rigid coax with copper outer conductor and microporous dielectric is part of our full line of RF components available for same-day shipping. This low loss semi-rigid coaxial cable operates to a maximum frequency range of 34 GHz. The outer conductor is served by a continuous copper tube which provides extremely high levels of RF shielding and low attenuation. The low density microporous dielectric of this semi rigid coax reduces the dielectric losses and also provides more phase stability over temperature when compared to solid PTFE dielectric. An additional benefit of the microporous dielectric is its mechanical stability over temperature. Unlike solid PTFE, this low density PTFE material can handle soldering heat with minimal or no measurable extrusion on the ends of the cable. This minimizes stress on connectors and allows for more predictable termination on PCB, surface mount applications.

Our microporous dielectric low loss semi-rigid coax cable, PECX007 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave interconnects allows designers to configure and customize their signal connections however they like. Whether the need is to provide a high isolation, phase stable signal path or simply create a custom cable assembly configuration, Pasternack has the right cable 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      |         | 34      | GHz   |
| Impedance               |         | 50      |         | Ohms  |
| Velocity of Propagation |         | 76.5    |         | %     |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections PECX007](#)



## Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections

### RF Cables Technical Data Sheet

PECX007

#### Performance by Frequency Band

| Description           | F1    | F2    | F3    | F4     | F5     | Units    |
|-----------------------|-------|-------|-------|--------|--------|----------|
| Frequency             | 0.5   | 1     | 5     | 10     | 18     | GHz      |
| Attenuation, Typ      | 7.5   | 10.5  | 24    | 34     | 46     | dB/100ft |
|                       | 24.61 | 34.45 | 78.74 | 111.55 | 150.92 | dB/100m  |
| Input Power (CW), Max | 820   | 580   | 240   | 170    | 130    | Watts    |

| Description           | F6    | F7 | F8 | F9 | F10 | Units    |
|-----------------------|-------|----|----|----|-----|----------|
| Frequency             | 20    |    |    |    |     | GHz      |
| Attenuation, Typ      | 52    |    |    |    |     | dB/100ft |
|                       | 170.6 |    |    |    |     | dB/100m  |
| Input Power (CW), Max | 115   |    |    |    |     | Watts    |

#### Mechanical Specifications

Min. Bend Radius (Installation) 0.5 in [12.7 mm]

#### Construction Specifications

| Description     | Material and Plating                   | Diameter         |
|-----------------|--|------------------|
| Inner Conductor | Copper, Silver, 1 Strand<br>ASTM B-298 | 0.04 in 1.02 mm  |
| Conductor Type  | Solid                                  |                  |
| Dielectric      | Microporous PTFE                       | 0.118 in [3 mm]  |
| Outer Conductor | Copper                                 | 0.141 in 3.58 mm |

#### Environmental Specifications

##### Temperature

Operating Range -65 to +200 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections PECX007](#)

## Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections

### RF Cables Technical Data Sheet

PECX007

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

#### Plotted and Other Data

Notes:

Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections 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.

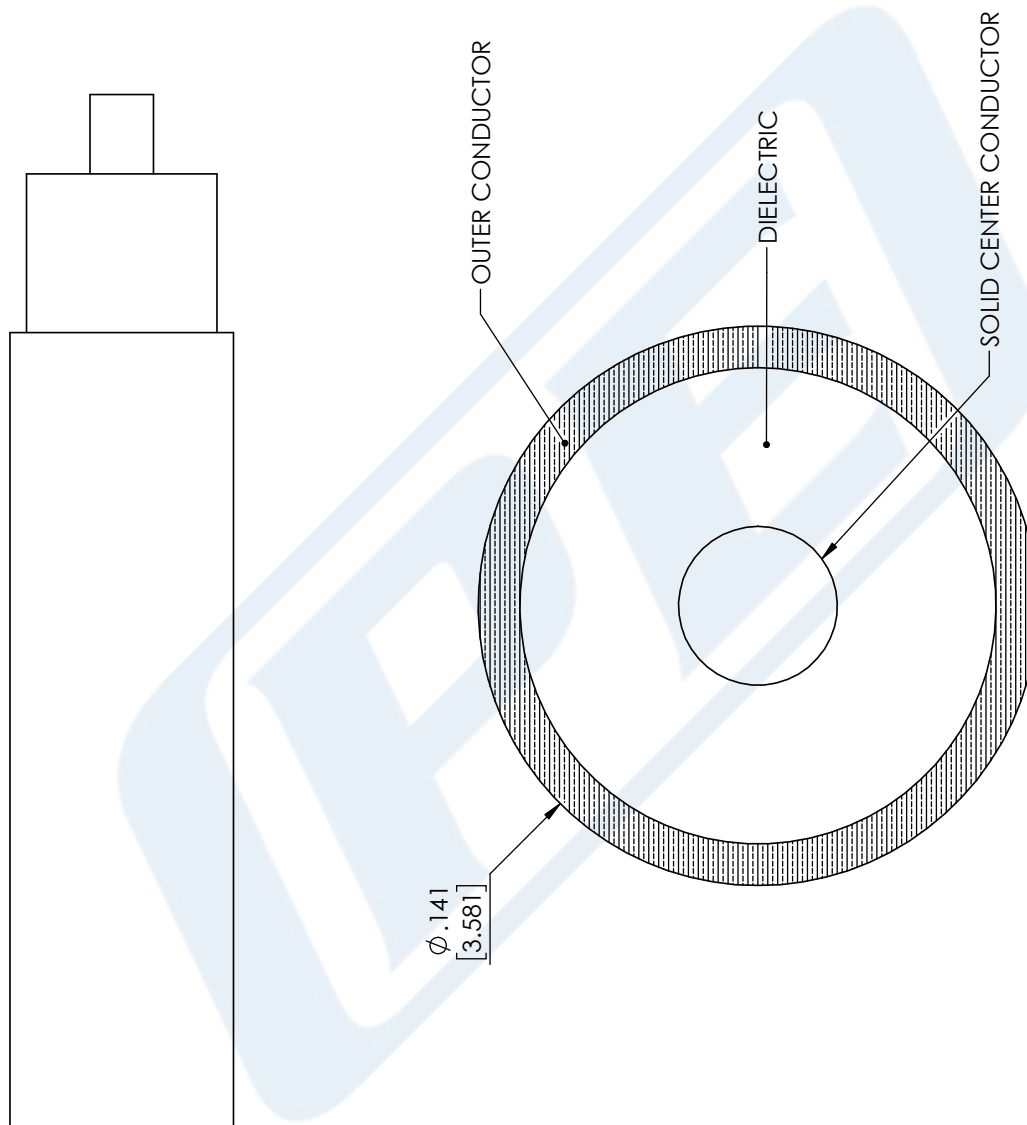
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URL: <https://www.pasternack.com/low-loss-semirigid-141-coax-cable-copper-straight-pecx007-p.aspx>

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# PECX007 CAD Drawing

Low Loss .141 Semi-Rigid Coax Cable, Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections



| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.2   |
| .XX                 | ±0.01  |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PECX007

**CAGE CODE 53919**

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CAD FILE 06/14/18

SCALE N/A

SIZE A

CN2245