

## N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

### PE4006



#### Configuration

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, RG402

#### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.5:1
- Gold Plated Brass Contact
- 30μ in. minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4006 type N , N, Standard, Connector is part of our full line of RF components available for same-day shipping. Our type N male connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.5:1.

Our type N male connector PE4006 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      |         | 4       | GHz   |
| VSWR            |         |         | 1.5:1   |       |
| Impedance       |         | 50      |         | Ohms  |

#### Mechanical Specifications

##### Size

|        |                     |
|--------|---------------------|
| Length | 1.36 in [34.54 mm]  |
| Width  | 0.8 in [20.32 mm]   |
| Weight | 0.082 lbs [37.19 g] |

#### Material Specifications

| Description  | Material | Plating                    |
|--------------|----------|----------------------------|
| Contact      | Brass    | Gold<br>30μ in. minimum    |
| Insulation   | Teflon   |                            |
| Body         | Brass    | Nickel<br>100μ in. minimum |
| Coupling Nut | Brass    | Nickel<br>100μ in. minimum |

## N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402



### PE4006

#### Environmental Specifications

##### Temperature

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

#### Plotted and Other Data

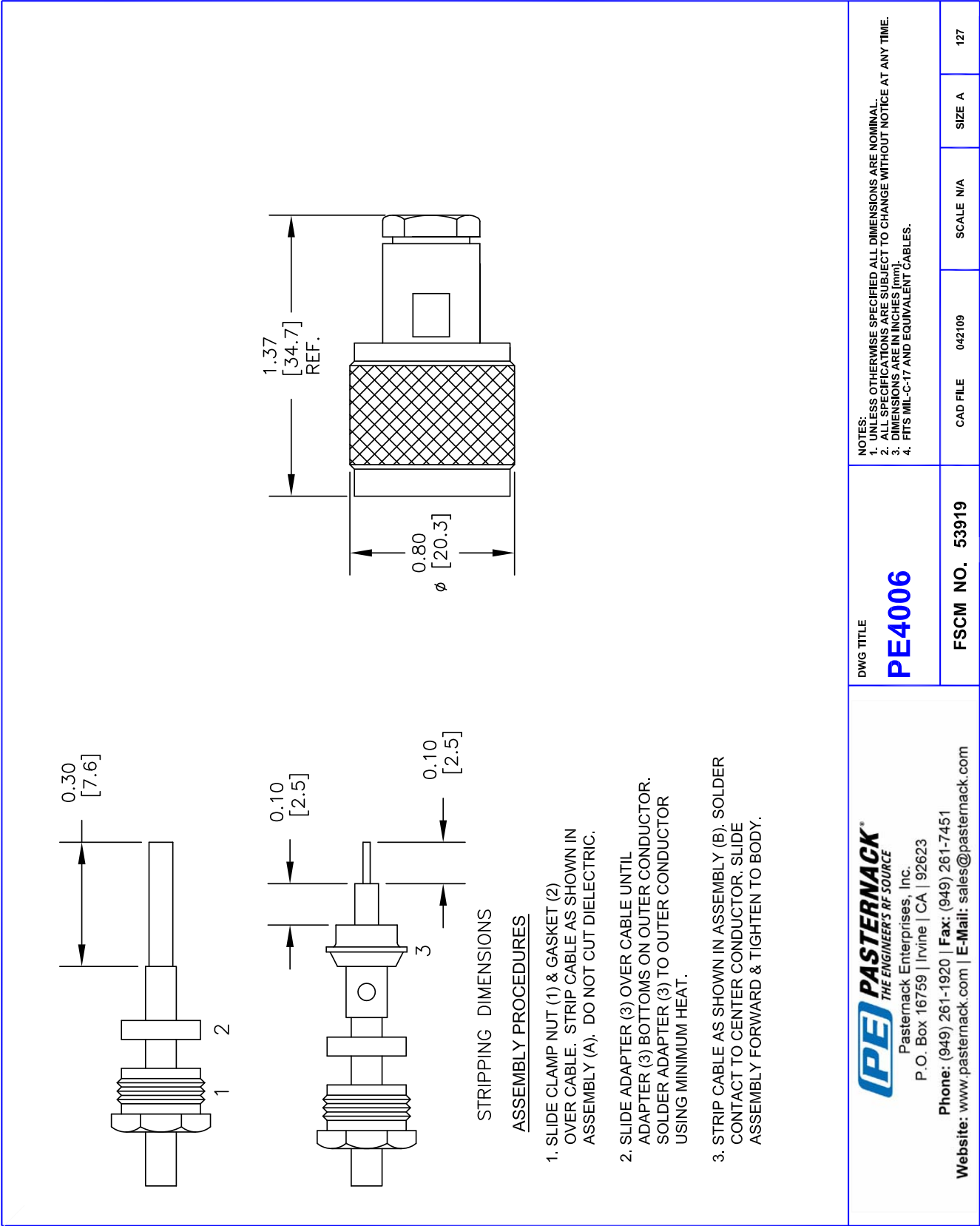
##### Notes:

N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, 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: [N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE4006](#)

URL: <https://www.pasternack.com/n-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe4006-p.aspx>

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### PE4006

#### Environmental Specifications

##### Temperature

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

#### Plotted and Other Data

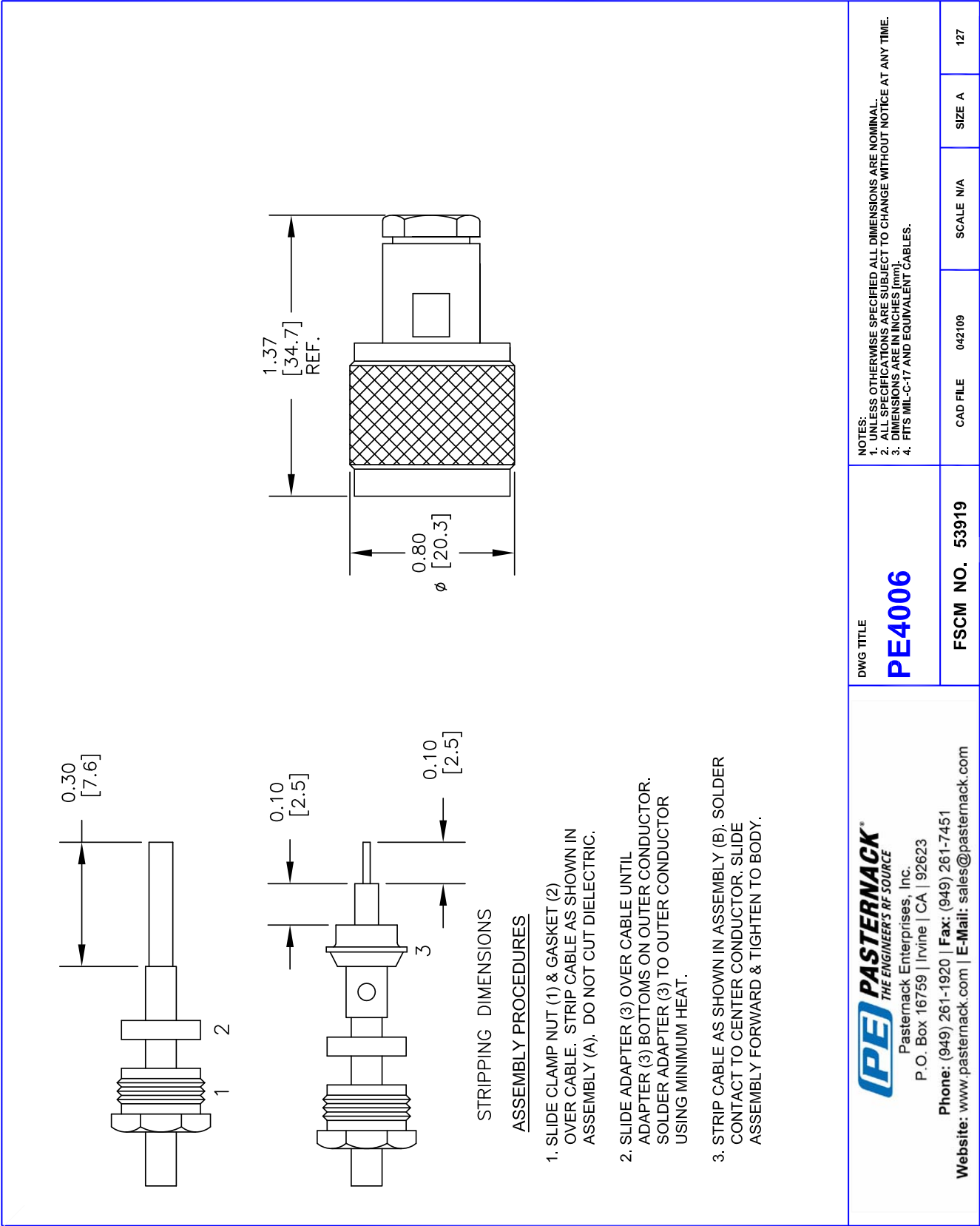
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Connector Clamp/Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE4006](#)

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

**RF Cables**  
**Technical Data Sheet**

**PECX008**

### 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 PECX008 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, PECX008 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, Tin Plated Copper Outer Conductor, Microporous PTFE 76.5 pct VoP Dielectric, Straight Sections PECX008](#)

Low Loss .141 Semi-Rigid Coax Cable, Tin Plated  
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 76.5 pct VoP Dielectric, Straight Sections

## RF Cables Technical Data Sheet

**PECX008**

### 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, Tin<br>ASTM B545               | 0.141 in 3.58 mm |

### Environmental Specifications

#### Temperature

Operating Range -65 to +200 deg C

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Copper Outer Conductor, Microporous PTFE  
76.5 pct VoP Dielectric, Straight Sections

## RF Cables Technical Data Sheet

**PECX008**

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

### Plotted and Other Data

Notes:

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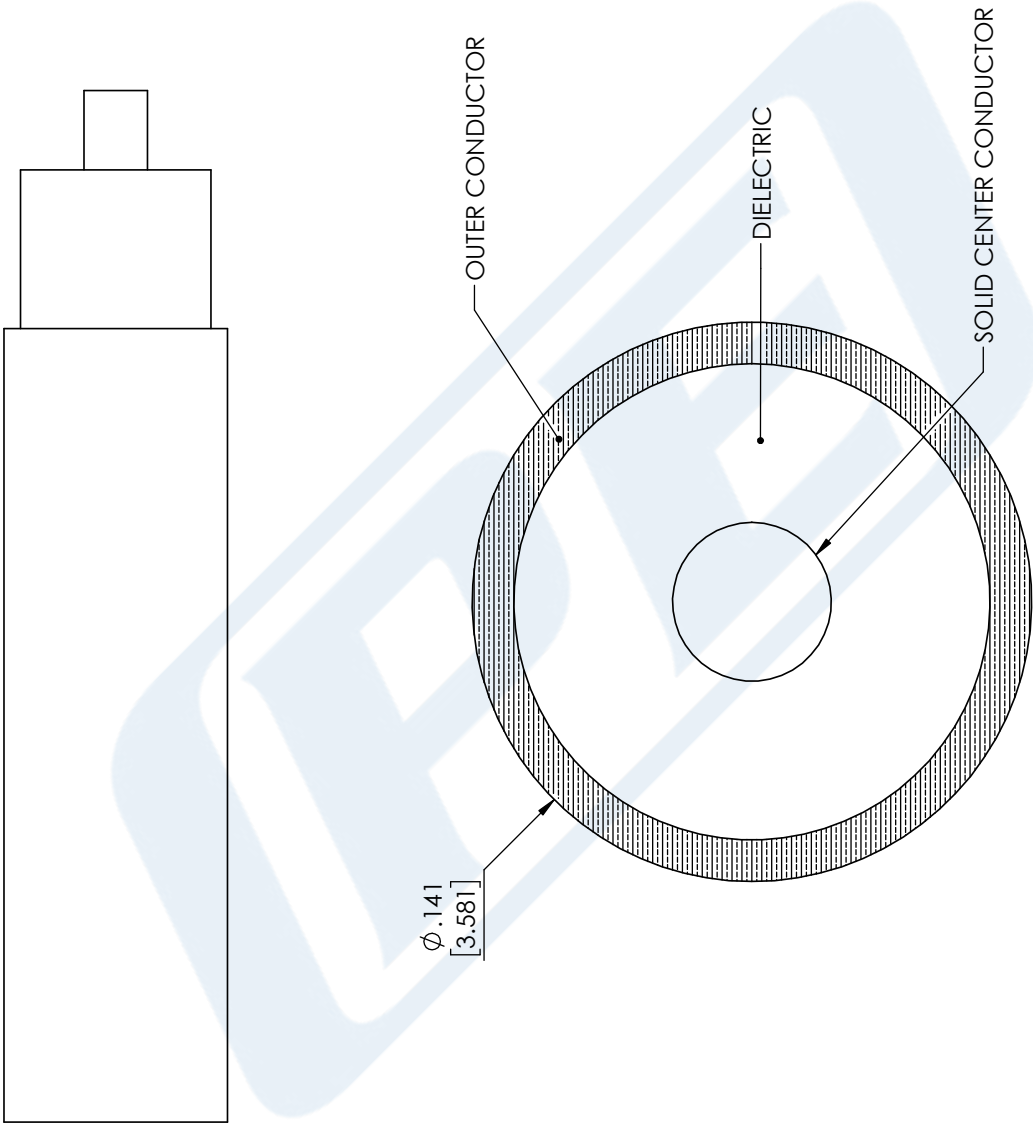
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URL: <https://www.pasternack.com/low-loss-semirigid-141-coax-cable-tin-plated-copper-straight-pecx008-p.aspx>

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PECX008 CAD Drawing

Low Loss .141 Semi-Rigid Coax Cable, Tin Plated 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



THE ENGINEER'S RF SOURCE

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|           |         |
|-----------|---------|
| DWG TITLE | PECX008 |
| CAGE CODE | 53919   |

|                                                                                                                                                                                     |          |          |       |     |      |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------|-----|------|--------|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. | CAD FILE | 06/15/18 | SCALE | N/A | SIZE | A      |
|                                                                                                                                                                                     |          |          |       |     |      | CN2245 |