



**3.5mm Female Bulkhead Mount Connector**  
**Clamp/Solder Attachment for PE-SR402AL, PE-**  
**SR402FL, RG402, .235 inch D Hole**

**RF Connectors**  
**Technical Data Sheet**

**PE4985**

**Configuration**

- 3.5mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, RG402
- Bulkhead

**Features**

- Gold Plated Contact

**Applications**

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

**Description**

Pasternack's PE4985 3.5mm female bulkhead connector with clamp/solder attachment for PE-SR402AL, PE-SR402FL and RG402 (.235 inch D hole) is part of our full line of RF components available for same-day shipping. This 3.5mm 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 3.5mm female bulkhead connector PE4985 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     | 0.865 in [21.97 mm] |
| Width/Dia. | 0.438 in [11.13 mm] |
| Weight     | 0.013 lbs [5.9 g]   |

**Material Specifications**

| Description | Material                   | Plating |
|-------------|----------------------------|---------|
| Contact     |                            | Gold    |
| Insulation  | PTFE                       |         |
| Body        | Passivated Stainless Steel |         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, RG402, .235 inch D Hole PE4985](#)



3.5mm Female Bulkhead Mount Connector  
Clamp/Solder Attachment for PE-SR402AL, PE-  
SR402FL, RG402, .235 inch D Hole

## RF Connectors Technical Data Sheet

**PE4985**

### Environmental Specifications

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

### Plotted and Other Data

Notes:

3.5mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, RG402, .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 99.4% 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: [3.5mm Female Bulkhead Mount Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, RG402, .235 inch D Hole PE4985](#)

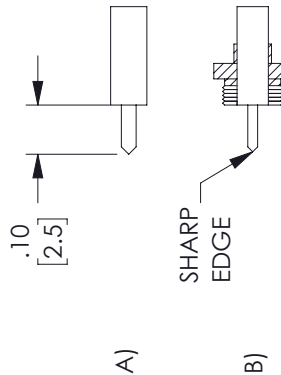
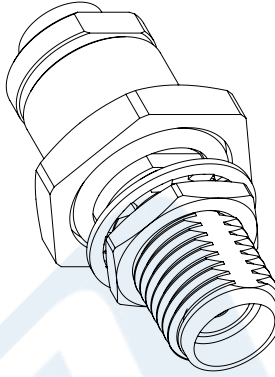
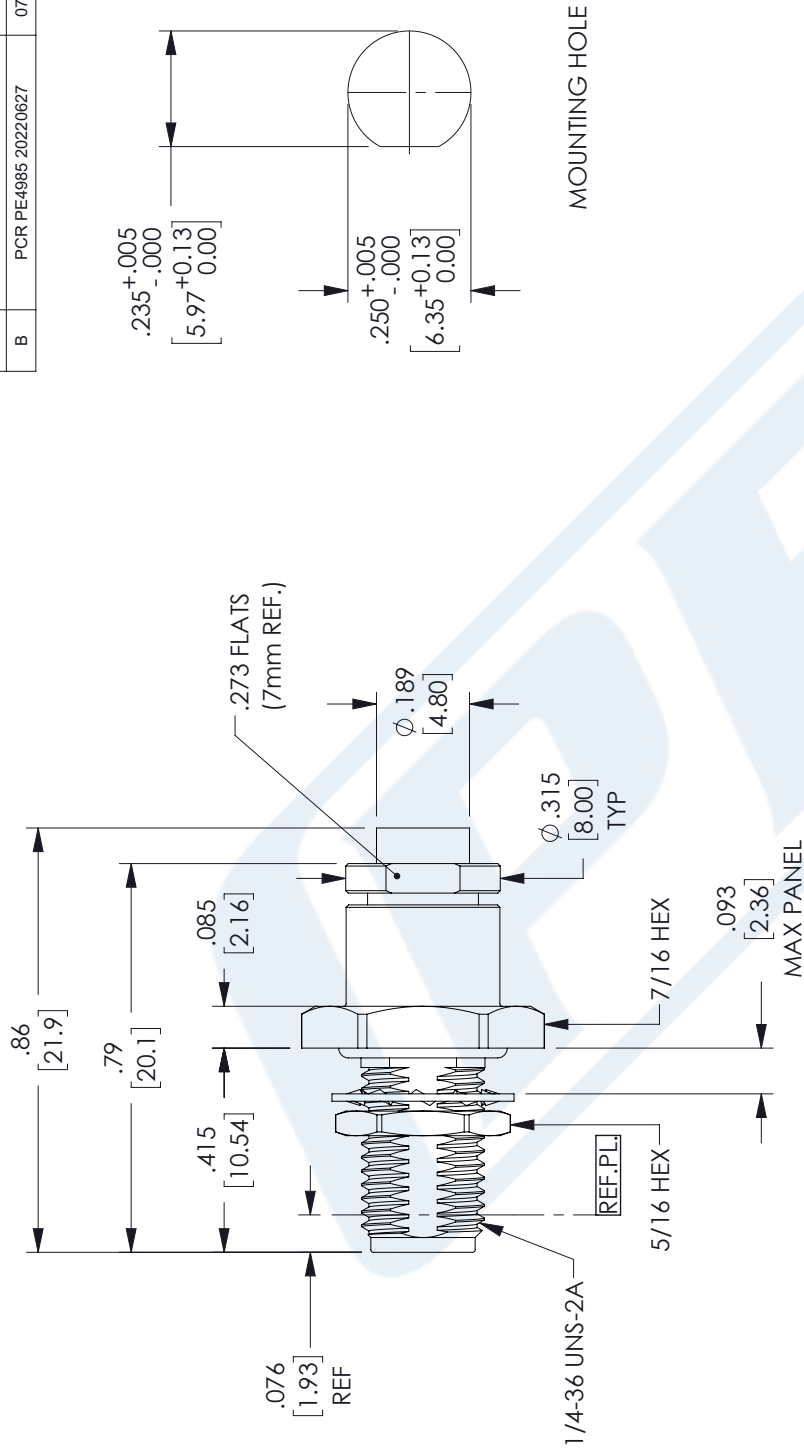
URL: <https://www.pasternack.com/3.5mm-female-pe-sr402al-pe-sr402fl-rg402-connector-pe4985-p.aspx>

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.

# PE4985 CAD Drawing

3.5mm Female Bulkhead Mount Connector Clamp/Solder Attachment  
for PE-SR402AL, PE-SR402FL, RG402, .235 inch D Hole

| REVISIONS |                     |            |          |
|-----------|---------------------|------------|----------|
| REV.      | DESCRIPTION         | DATE       | APPROVED |
| B         | PCR PE4985 20220627 | 07/06/2022 | AGANWANI |



## ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK CENTER CONDUCTOR.
2. INSERT CABLE THROUGH CLAMP NUT AS SHOWN IN (B). SOLDER OUTER CONDUCTOR TO CLAMP NUT.
3. SCREW ASSEMBLY INTO BODY UNTIL SEATED AND TORQUE 25-30 IN-LBS.

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                                                                                                                                                                                                                                                                           |  |  <b>PASTERNAK</b><br>an INFINITE brand                                                                        |                 | THIRD-ANGLE PROJECTION<br><br>THE INFORMATION AND<br>DESIGN IN THIS DOCUMENT<br>IS THE PROPERTY OF<br>PASTERNAK CORPORATION<br>ALL RIGHTS RESERVED. |                 |
| TOLERANCES:<br><br>X = ± .2 [ .08 ]      FRACTIONS<br>.XX = ± .02 [ .51 ]      ± 1/32<br>XXX = ± .005 [ .13 ]      ANGLES ± 1°<br><br>CABLE LENGTH (L) TOLERANCES:<br><br>L ≤ 12 [305] = +1 [25] / -0<br>12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5% / -0 |  | Pasternack Enterprises, Inc.<br>P.O.Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>Website: www.pasternack.com<br>E-mail: sales@pasternack.com |                 | SHEET 1 OF 1<br><br>SCALE N/A                                                                                                                                                                                                          |                 |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                                                                                                                                                                                                                                                                                            |  | SIZE A                                                                                                                                                                                           | CAGE CODE 53919 | DRAWN BY KGLEBOVA                                                                                                                                                                                                                      | ITEM NO. PE4985 |
|                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                  |                 |                                                                                                                                                                                                                                        | REV B           |

## 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

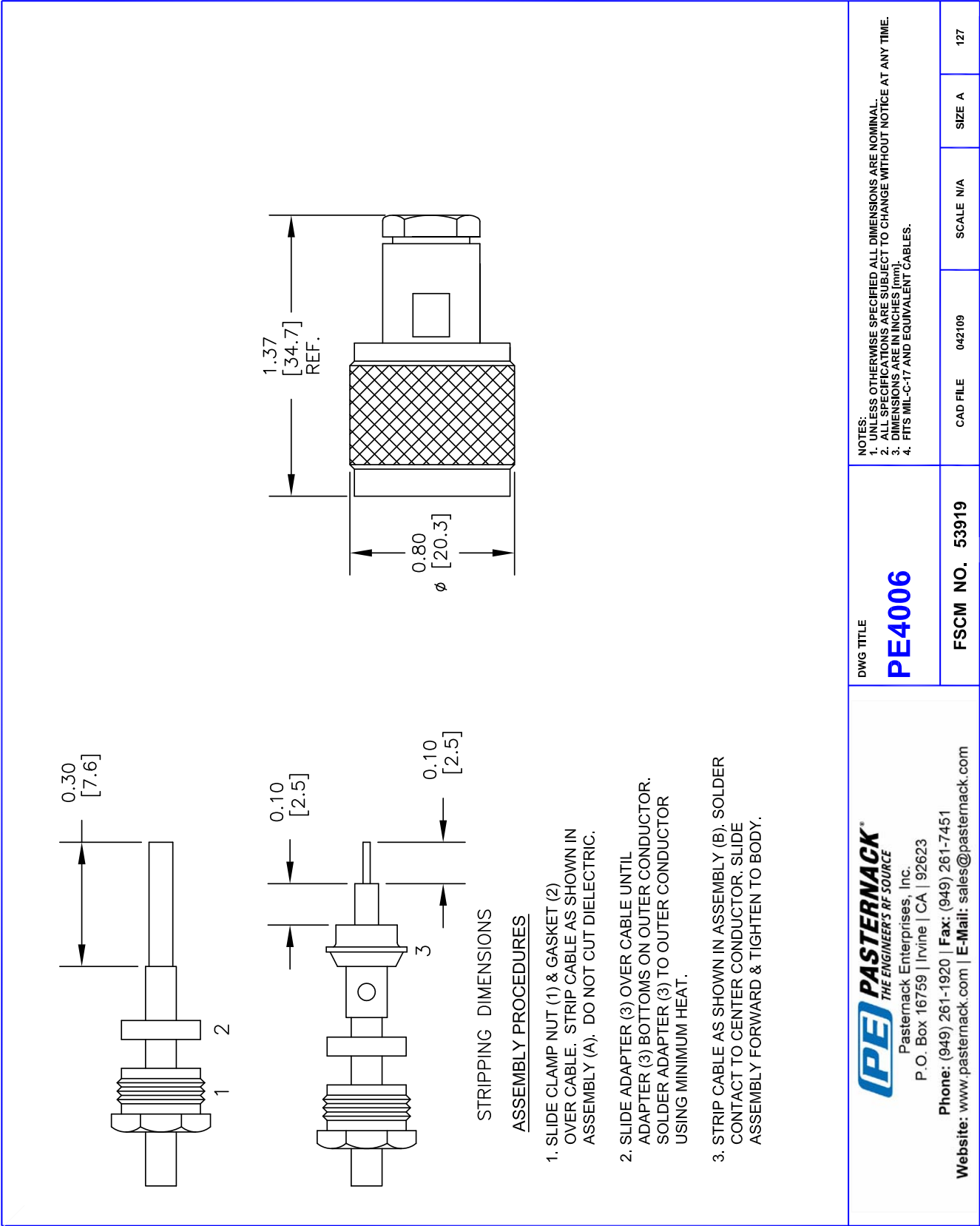
##### Notes:

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>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.



## 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.

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](#)

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

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



\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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**DWG TITLE**

PECX007

**CAGE CODE 53919**

NOTES:

- 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].

**CAD FILE** 06/14/18

**SCALE N/A**

**SIZE A**

CN2245