

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors Technical Data Sheet

PE4981

Configuration

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-

SR402TN, RG402 Interface Type

- Clamp/Solder Attachment
- 5/16 inch Hex

Features

- Max. Operating Frequency 34 GHz
- Excellent VSWR of 1.2:1

- Gold over Nickel Plated Beryllium Copper Contact
- 50 μ in minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4981 3.5mm male connector with clamp/solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 is part of our full line of RF components available for same-day shipping. Our 3.5mm male connector operates up to a maximum frequency of 34 GHz and offers excellent VSWR of 1.2:1.

Our 3.5mm male connector PE4981 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		34	GHz
VSWR			1.2:1	
Insertion Loss		0.233		dB
Operating Voltage (AC)		500		Vrms
Dielectric Withstanding Voltage (AC)		1,500		Vrms
High Potential Voltage			1,000	Vrms
5 to 7.5 MHz				
Corona Discharge @ 70000 ft			375	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: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE4981](#)

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors Technical Data Sheet

PE4981

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 12.4	12.4 to 26.5	26.5 to 34			GHz
VSWR, Max	1.1:1	1.14:1	1.2:1			

Electrical Specification Notes:
Insertion Loss is $0.04 * \text{sqrt}(F(\text{GHz}))$ dB

Mechanical Specifications

Size	
Length	0.86 in [21.84 mm]
Width/Dia.	0.32 in [8.13 mm]
Weight	0.012 lbs [5.44 g]
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 μ in minimum
Insulation	PCTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700
Gasket	Silicone Rubber	

Environmental Specifications

Temperature	
Operating Range	-65 to +150 deg C
Humidity	MIL-STD-202, METHOD 106, (NO VIBRATION)
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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: **3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR-402FLJ, PE-SR402TN, RG402 PE4981**

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors
Technical Data Sheet

PE4981

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

Plotted and Other Data

Notes:



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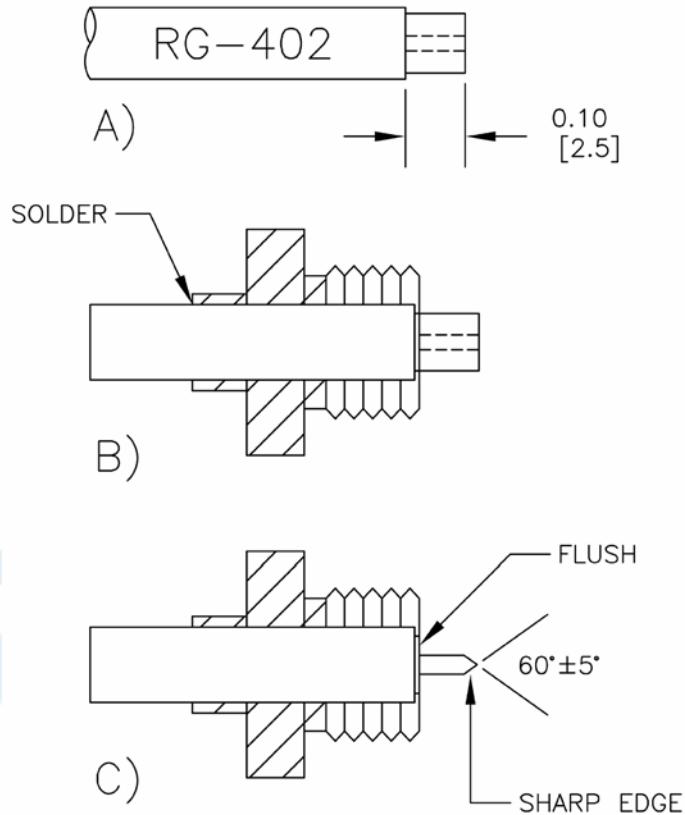
3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors
Technical Data Sheet

PE4981

Assembly Instruction



ASSEMBLY PROCEDURES

1. STRIP CALBE AS SHOWN IN (A). DO NOT NICK CENTER DIELECTRIC.
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3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

RF Connectors Technical Data Sheet

PE4981

3.5mm Male Connector Clamp/Solder 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.

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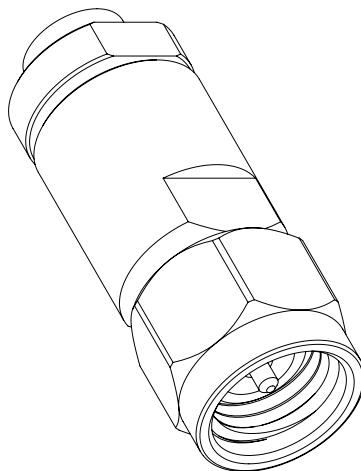
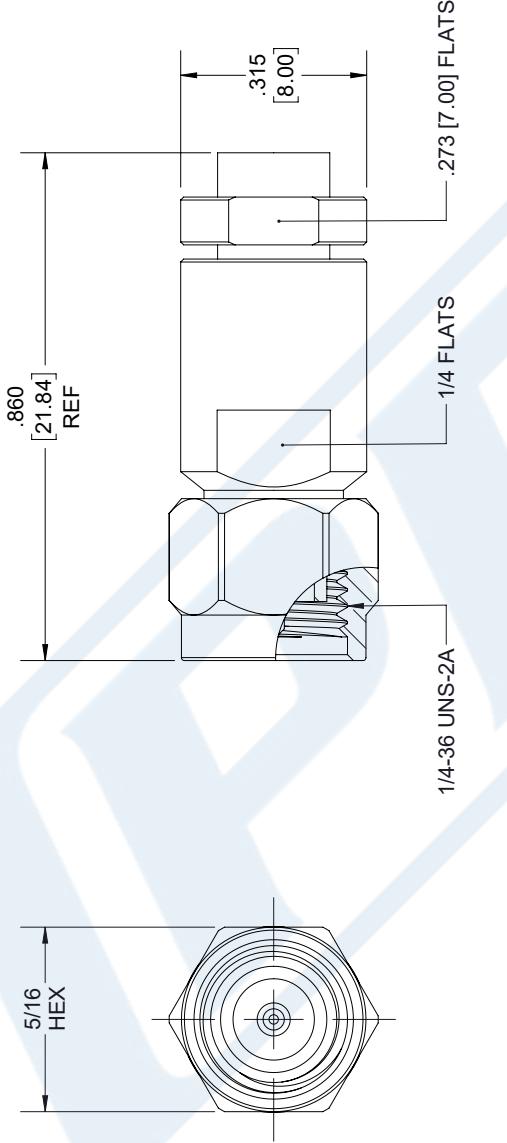
URL: <https://www.pasternack.com/3.5mm-male-pe-sr402al-pe-sr402fl-pe-sr402tn-rg402-connector-pe4981-p.aspx>

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PE4981 CAD Drawing

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL,
PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
1.2	PCR PE4981 2019056	05/13/19	J.GARCIA	



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www.pasternack.com email: sales@pasternack.com	www.pasternack.com email: sales@pasternack.com
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PE4981

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Insulation Resistance	5,000			MOhms
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RF Connectors Technical Data Sheet

PE4981

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Mechanical Specifications

Size

Length
Width/Dia.

0.86 in [21.84 mm]
0.32 in [8.13 mm]

Weight

0.012 lbs [5.44 g]

Mating Cycles
Mating Torque

500 Cycles
8 to 10 in-lbs [0.90 to 1.13 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 μ in minimum
Insulation	PCTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range

-65 to +150 deg C

Humidity

MIL-STD-202, METHOD 106, (NO VIBRATION)

Shock

MIL-STD-202, METHOD 213, CONDITION I

Vibration

MIL-STD-202, METHOD 204, CONDITION D

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MIL-STD-202, METHOD 107, CONDITION B

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3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

RF Connectors
Technical Data Sheet

PE4981

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

Plotted and Other Data

Notes:



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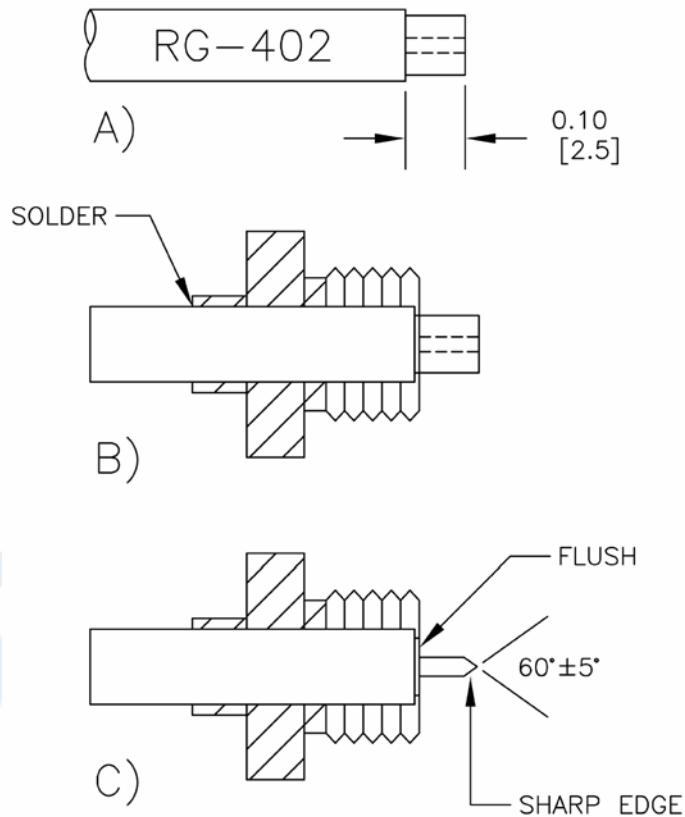
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RF Connectors
Technical Data Sheet

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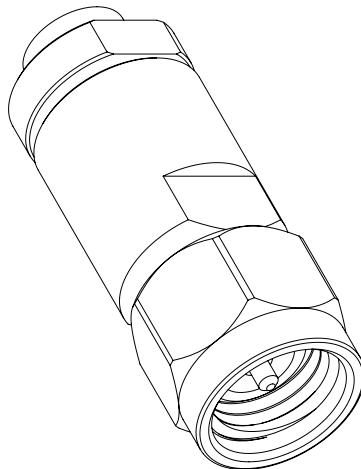
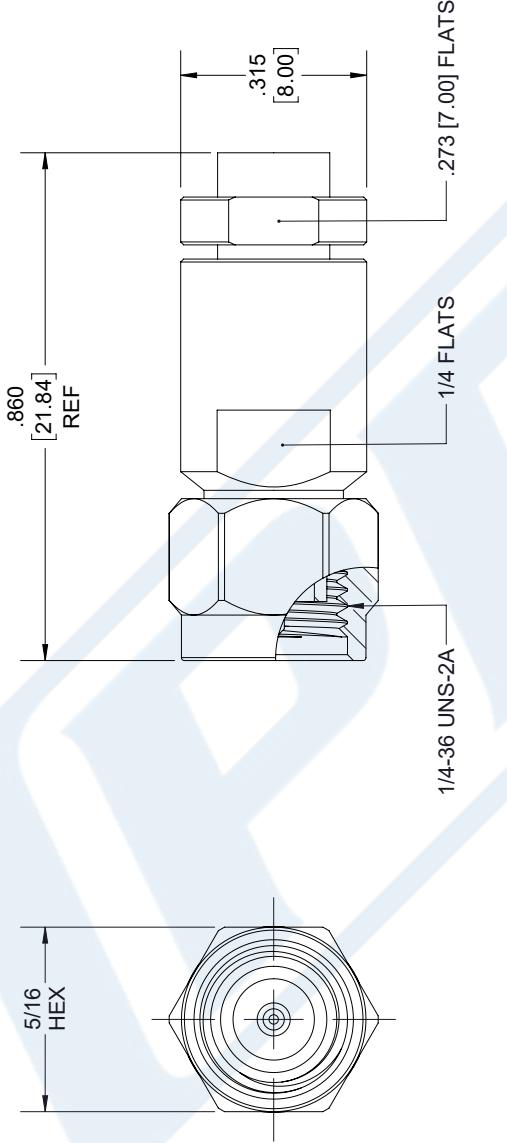
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PE4981 CAD Drawing

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL,
PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
1.2	PCR PE4981 2019056	05/13/19	J.GARCIA	



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Fax: 1.949.261.7451	Fax: 1.949.261.7451
www.pasternack.com email: sales@pasternack.com	www.pasternack.com email: sales@pasternack.com
SCALE	N/A
SIZE	REV
CAGE	
A	1.2
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K.Dang	
PE4981	

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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	Cables	• Surface Mount Cabling
• Phase Matched Microporous	• High Isolation Interconnects	• 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 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

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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.

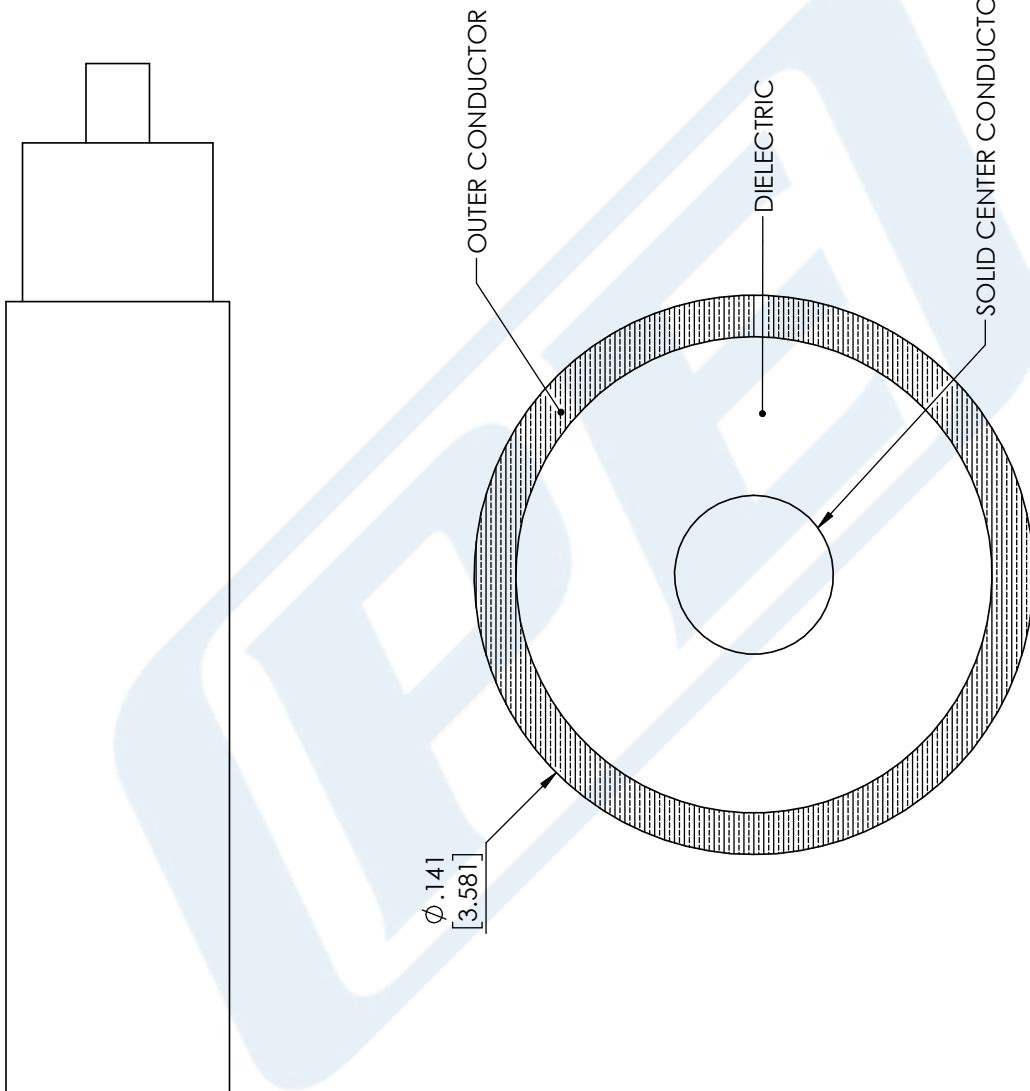
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PECX007 CAD Drawing

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

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

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

CAGE CODE	53919	CAD FILE	06/14/18	SCALE	N/A	SIZE	A	CN2245
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].							