PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Male Precision Connector Clamp/ Solder Attachment for PE-P300LL

RF Connectors Technical Data Sheet PE44808

Configuration

- SMA Male Connector
- MIL-STD-348B
- 50 Ohms
- Straight Body Geometry
- PE-P300LL Interface Type
- Clamp/Solder Attachment
- 5/16 inch Hex
- Precision Design

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.16:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- Precision Test & Measurement
- Custom Cable Assemblies

Description

Pasternack's PE44808 SMA male precision connector with clamp/solder attachment for PE-P300LL 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 1.16:1.

Our SMA male connector PE44808 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			1.16:1	

Electrical Specification Notes:
Insertion loss: 0.04 x sqrt(fGHz) dB max.
RF leakage: 90 dB min up to 1 GHz.

Mechanical Specifications

Size

Length	1.62 in [41.15 mm]
Width/Dia.	0.62 in [15.75 mm]
Weight	0.07 lbs [31.75 g]
Mating Cycles	500 Cycles
Mating Torque	7 to 10 in-lbs [0.79 to 1.13 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Precision Connector Clamp/Solder Attachment for PE-P300LL PE44808

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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SMA Male Precision Connector Clamp/ Solder Attachment for PE-P300LL

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

Environmental Specifications

Temperature

Operating Range	-65 to +165 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
Salt Spray	MIL-STD-202, Method 101, Condition B (5%)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

SMA Male Precision Connector Clamp/Solder Attachment for PE-P300LL 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.

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URL: https://www.pasternack.com/sma-male-pe-p300ll-connector-pe44808-p.aspx

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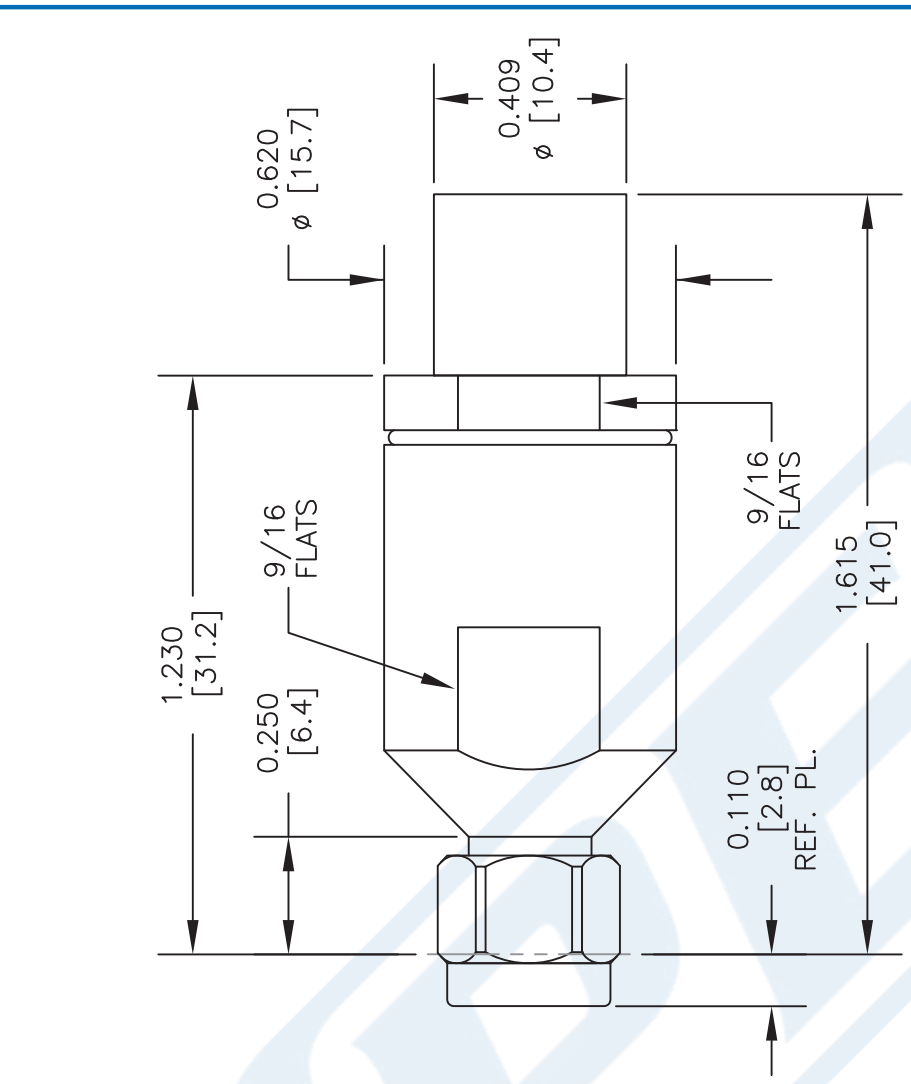
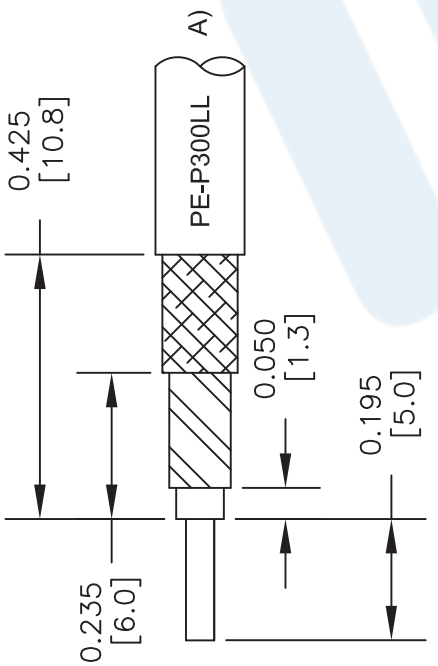
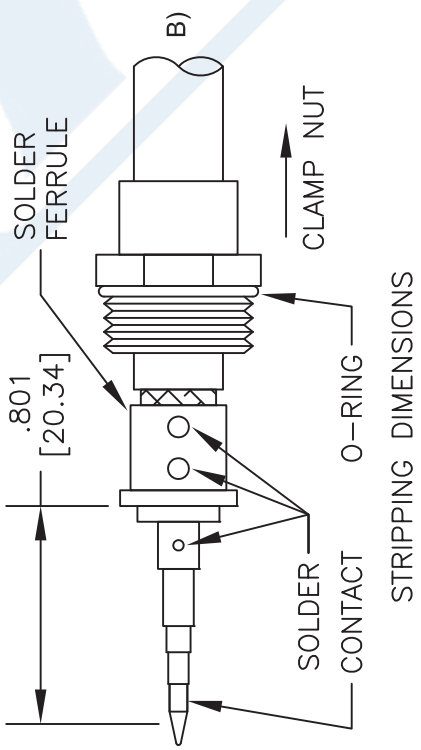
PE44808 CAD Drawing

SMA Male Precision Connector Clamp/Solder Attachment for PE-P300LL







STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK DIELECTRIC.
2. SLIDE CLAMP NUT OVER CABLE AS SHOWN IN (B). INSERT CABLE INTO SOLDER FERRULE UNTIL CABLE DIELECTRIC IS FLUSH WITH FACE OF FERRULE. THEN SOLDER BOTH CABLE BRAIDS WHERE SHOWN.
3. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
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3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE	091616	SCALE N/A	SIZE A	2233

DWG TITLE: **PE44808**

CAGE CODE 53919

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- 50 Ohms
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Description

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VSWR			1.16:1	

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SMA Male Precision Connector Clamp/ Solder Attachment for PE-P300LL

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

Environmental Specifications

Temperature

Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method 106, No Vibration
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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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URL: https://www.pasternack.com/sma-male-pe-p300ll-connector-pe44808-p.aspx

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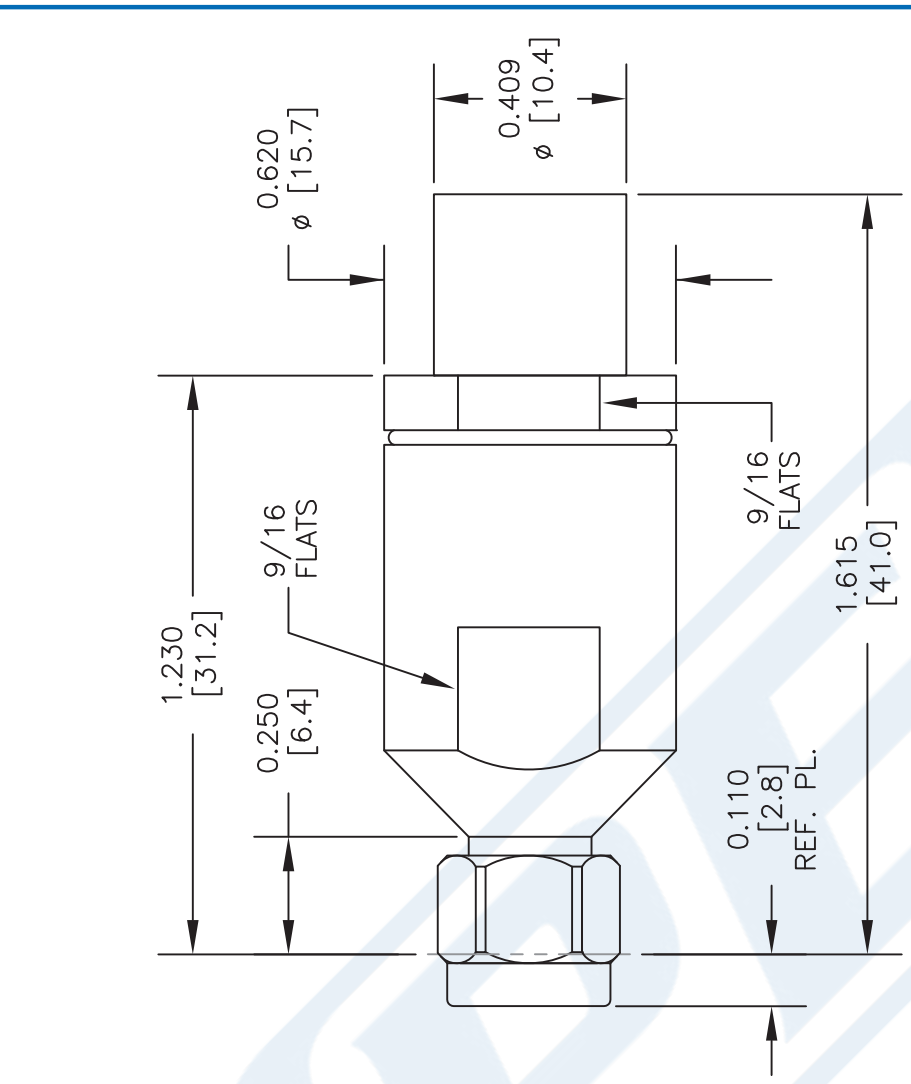
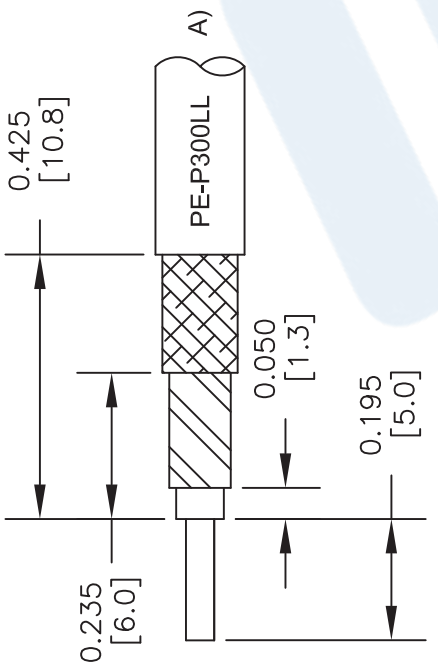
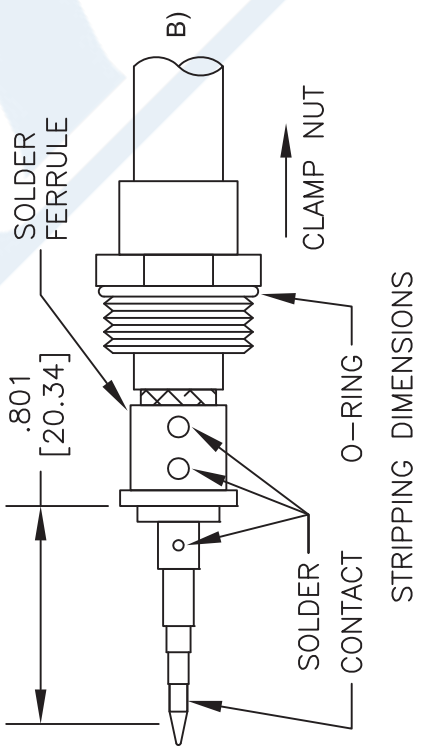
PE44808 CAD Drawing

SMA Male Precision Connector Clamp/Solder Attachment for PE-P300LL







STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN IN (A). DO NOT NICK DIELECTRIC.
2. SLIDE CLAMP NUT OVER CABLE AS SHOWN IN (B). INSERT CABLE INTO SOLDER FERRULE UNTIL CABLE DIELECTRIC IS FLUSH WITH FACE OF FERRULE. THEN SOLDER BOTH CABLE BRAIDS WHERE SHOWN.
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CAD FILE	091616	SCALE N/A	SIZE A	2233

DWG TITLE: **PE44808**

CAGE CODE 53919

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Low Loss Flexible PE-P300LL Coax Cable Triple Shielded with Green FEP Jacket

RF Cables
Technical Data Sheet

PE-P300LL

Configuration

- Low Loss Flexible Cable
- 3 Shield(s)

Features

- Low Loss dielectric 83% VoP
- Phase stable Expanded PTFE dielectric
- Double Shielded with metalized polyimide interlayer
- Shielding >95dB
- FEP Jacket

Applications

- Low Loss system cables
- Rugged environments
- Test systems with long cable runs
- ATE, Automated Test Equipment
- Antenna Jumpers

Description

PE-P300LL low loss coaxial cable with flat strip foil braid is part of our full line of RF components available for same-day shipping from Pasternack. The PE-P300LL coaxial cable features a low loss dielectric with an 83% velocity of propagation (VoP). These low loss coax features combine to make Pasternack's cable well suited for applications that require a high-performance RF cable. Applications for coax with low loss include long cable lengths where the attenuation from standard solid dielectric coax would impact system performance.

The 0.300 inch diameter coax has a durable FEP outer jacket that makes this cable appropriate for a wide range of indoor or outdoor applications. The flat foil braid provides superior shielding and the expanded PTFE dielectric contributes to the lower attenuation and improves the power handling of this coax cable.

Our datasheet specifications and drawing with dimensions for The PE-P300LL coax cable are shown below in this PDF. In addition to bulk RF cable, Pasternack offers cable assemblies using PE-P300LL with a wide selection of connector options available. See our web site to find the right connector cable combination for your application.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Structural VSWR		1.35:1		
Velocity of Propagation		83		%
Nominal Capacitance		25 [82.02]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low Loss Flexible PE-P300LL Coax Cable Triple Shielded with Green FEP Jacket PE-P300LL

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Low Loss Flexible PE-P300LL Coax Cable Triple Shielded with Green FEP Jacket

RF Cables
Technical Data Sheet

PE-P300LL

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	2	2.4	3	GHz
Attenuation, Max	3.2	5.1	7.3	8	9	dB/100ft
	10.5	16.73	23.95	26.25	29.53	dB/100m
Attenuation, Typ	2.9	4.6	6.6	7.3	8.2	dB/100ft
	9.51	15.09	21.65	23.95	26.9	dB/100m
Input Power (CW), Max	2,750	1,700			950	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	5	10	18			GHz
Attenuation, Max	11.9	17.4	24.1			dB/100ft
	39.04	57.09	79.07			dB/100m
Attenuation, Typ	10.8	15.8	21.9			dB/100ft
	35.43	51.84	71.85			dB/100m
Input Power (CW), Max	730	500	345			Watts

Electrical Specification Notes:
Power handling derates linearly to 0% from +25°C to +250°C.

Mechanical Specifications

Diameter	0.3 in [7.62 mm]
Weight	0.079 lbs/ft [0.12 Kg/m]
Min. Bend Radius (Repeated)	1.5 in [38.1 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver1	0.089 in 2.26 mm
Conductor Type	Solid	
Dielectric	PTFE	0.25 in 6.35 mm

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Low Loss Flexible PE-P300LL Coax Cable Triple Shielded with Green FEP Jacket

First Shield	Silver Plated Copper Tape 90% min. coverage	0.255 in 6.48 mm
Second Shield	Aluminum Polyester	0.261 in 6.63 mm
Third Shield	Silver Plated Copper Wire 90% min. coverage	0.277 in 7.04 mm
Jacket	FEP, Green	0.3 in [7.62 mm]

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Low Loss Flexible PE-P300LL Coax Cable Triple Shielded with Green FEP Jacket 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/50ohm-low-loss-flexible-pe-p300ll-coax-cable-triple-shielded-fep-jacket-p.aspx

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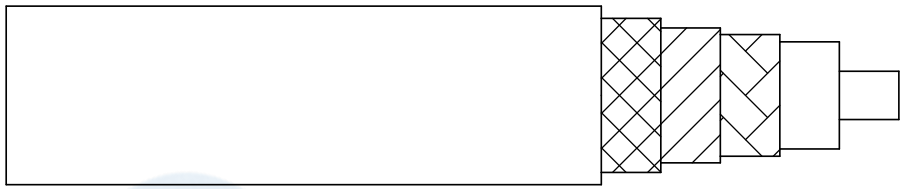
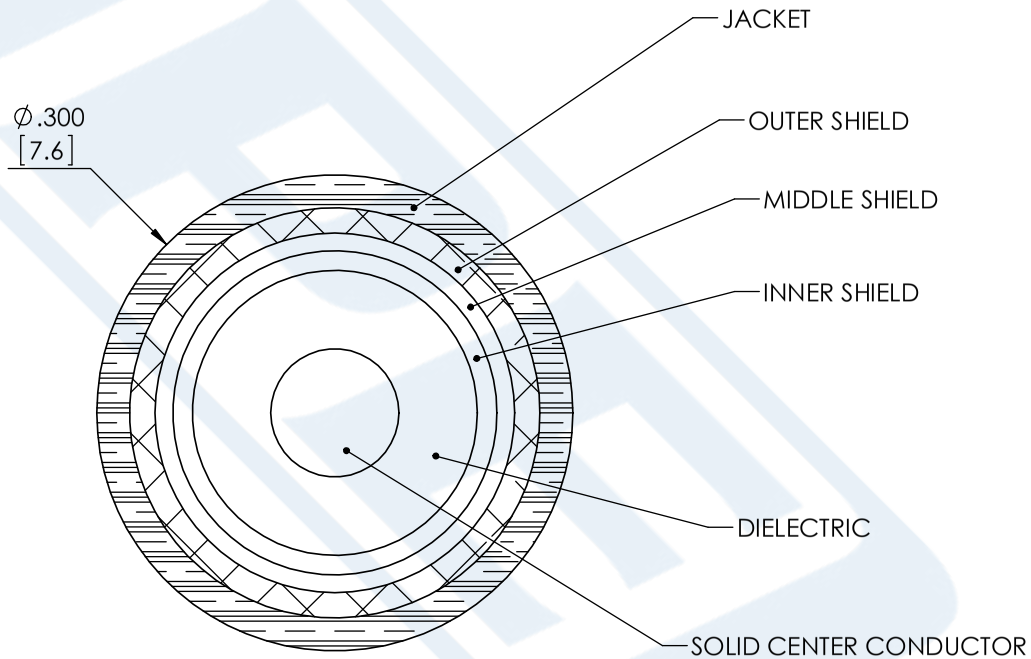
PE-P300LL CAD Drawing

Low Loss Flexible PE-P300LL Coax Cable Triple Shielded with Green FEP Jacket





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
PE-P300LL

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CAGE CODE 53919	CAD FILE 11/28/17	SCALE N/A	SIZE A	CN2245