PASTERNACK®
THE ENGINEER'S RF SOURCE

SMA Male Right Angle Connector Clamp/ Solder Attachment for PE-P160LL

RF Connectors Technical Data Sheet PE45442

Configuration

- SMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- PE-P160LL Interface Type
- Clamp/Solder Attachment

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.16:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM-B488

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45442 SMA male right angle connector with clamp/solder attachment for PE-P160LL 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. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE45442 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	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle Connector Clamp/Solder Attachment for PE-P160LL PE45442

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 Right Angle Connector Clamp/ Solder Attachment for PE-P160LL

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488
Insulation	PTFE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Gasket	Silicone Rubber	
Crimp Sleeve	Brass	Gold ASTM-B488

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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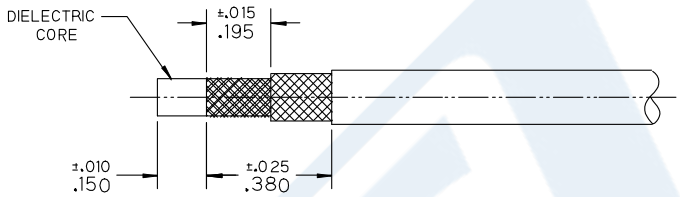
Assembly Instruction

1. TRIM CABLE TO EXPOSE DIELECTRIC AND BRAIDS AS SHOWN.



2. A. SLIDE CLAMP NUT OVER CABLE IN ORIENTATION SHOW.
   B. INSERT CABLE INTO SOLDER FERRULE UNTIL INNER BRAID SEATS IN FERRULE. THEN SOLDER CABLE BRAIDS TO FERRULE WHERE SHOWN.
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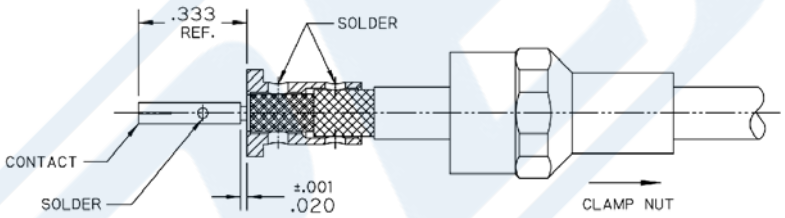
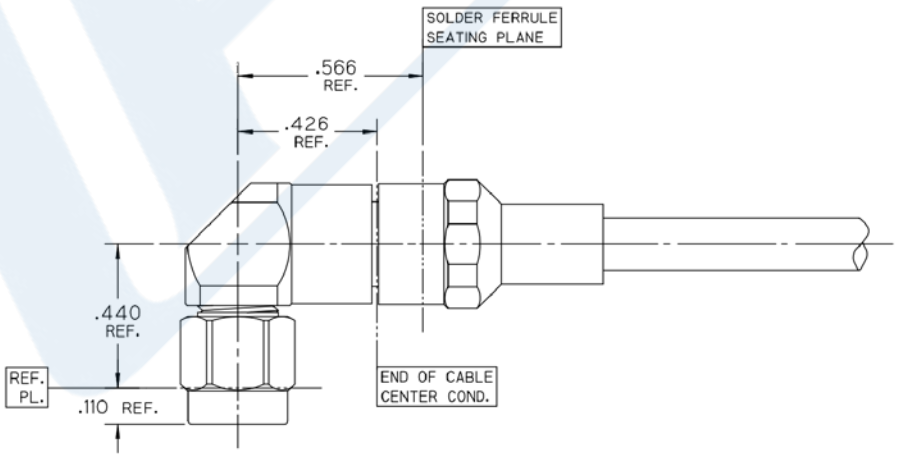
   D. SOLDER CONTACT WITH INDICATED GAP.



3. INSERT CABLE/CONTACT SUB-ASSEMBLY INTO CONNECTOR UNTIL SEATED AND TIGHTEN CLAMP NUT TO 35-45 IN-LBS.



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RF Connectors Technical Data Sheet PE45442

SMA Male Right Angle Connector Clamp/Solder Attachment for PE-P160LL 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/sma-male-pe-p160ll-connector-pe45442-p.aspx

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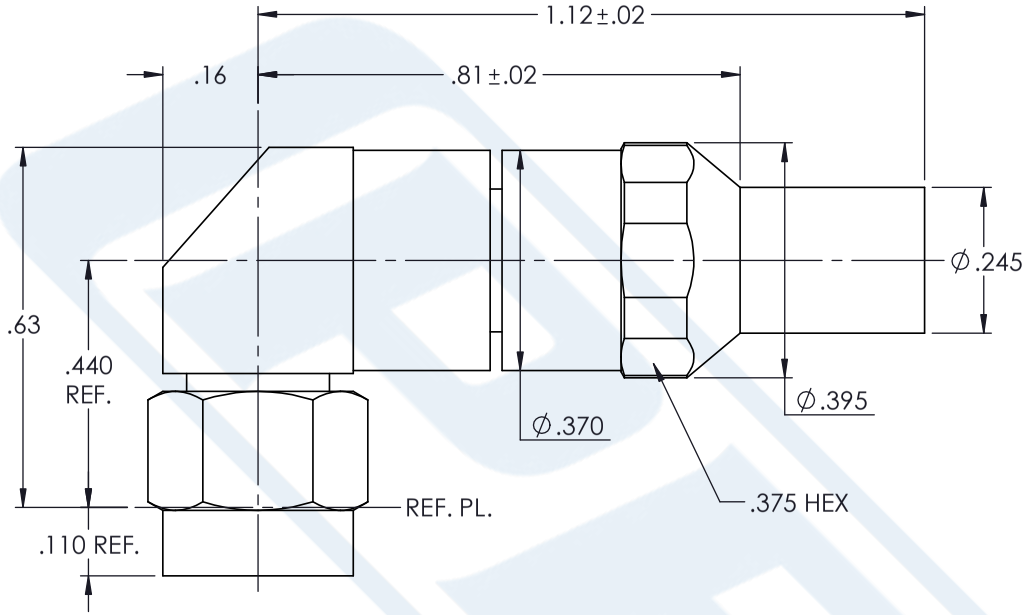
PE45442 CAD Drawing

SMA Male Right Angle Connector Clamp/Solder Attachment for PE-P160LL



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
PE45442

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3. DIMENSIONS ARE IN INCHES [mm].

CAGE CODE 53919	CAD FILE 01/11/18	SCALE N/A	SIZE A	GF0006

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Configuration

- SMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- PE-P160LL Interface Type
- Clamp/Solder Attachment

Features

- Max. Operating Frequency 18 GHz
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Applications

- General Purpose Test
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Description

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.16:1	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

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SMA Male Right Angle Connector Clamp/ Solder Attachment for PE-P160LL

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488
Insulation	PTFE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Gasket	Silicone Rubber	
Crimp Sleeve	Brass	Gold ASTM-B488

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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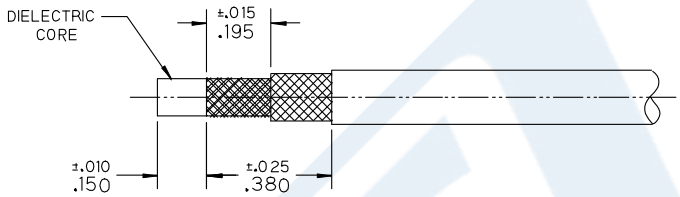

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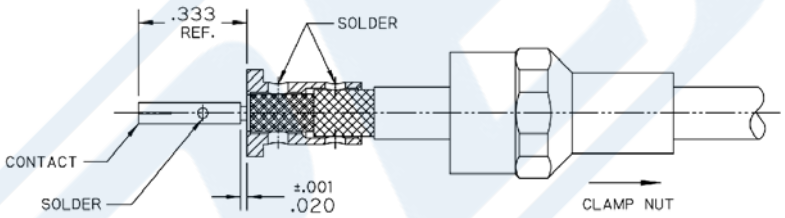

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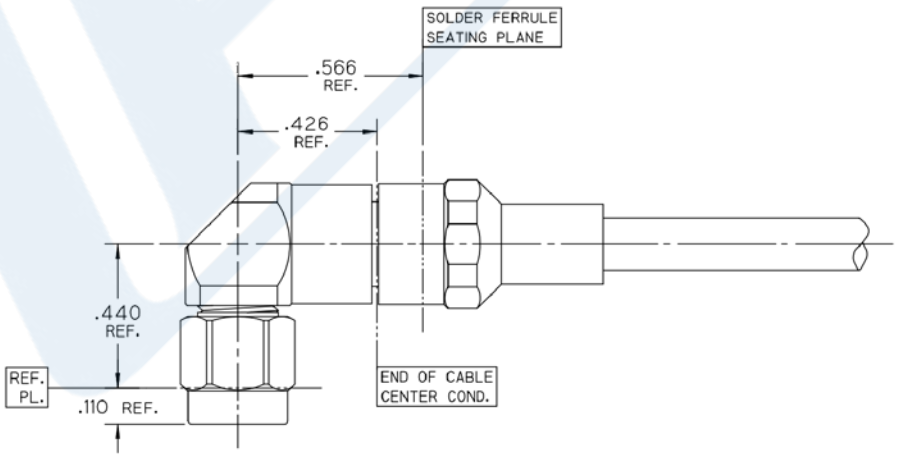

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URL: https://www.pasternack.com/sma-male-pe-p160ll-connector-pe45442-p.aspx

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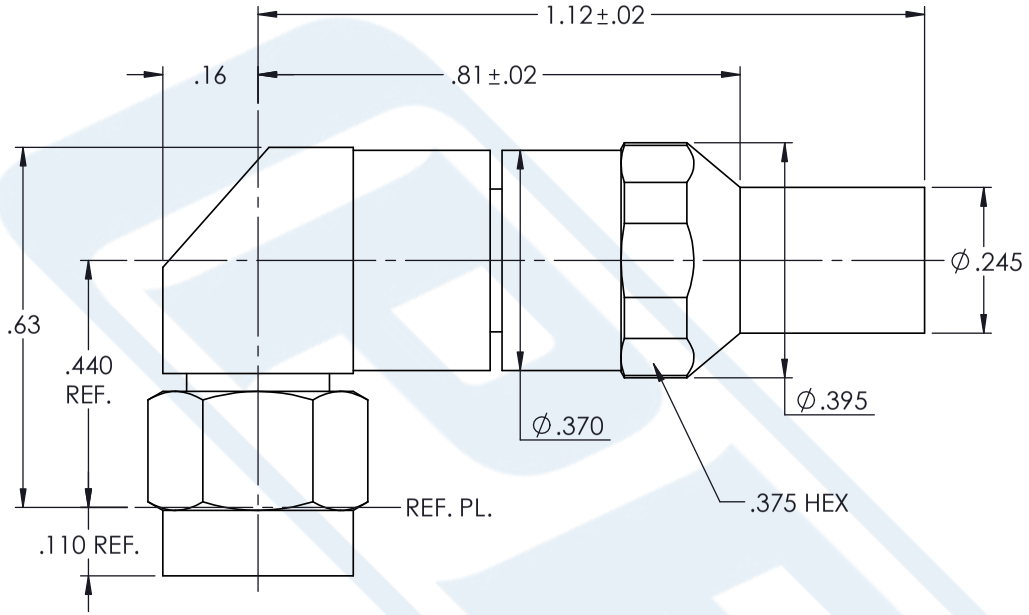
PE45442 CAD Drawing

SMA Male Right Angle Connector Clamp/Solder Attachment for PE-P160LL



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CAGE CODE 53919	CAD FILE 01/11/18	SCALE N/A	SIZE A	GF0006

PASTERNACK
an INFINITE brand

Low Loss Flexible PE-P160LL Coax Cable Triple Shielded with Green FEP Jacket

RF Cables
Technical Data Sheet

PE-P160LL

Configuration

- Low Loss Flexible Cable
- 3 Shield(s)

Features

- Low Loss dielectric 82.5% 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-P160LL 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-P160LL coaxial cable features a low loss dielectric with an 82.5% 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 0.160 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-P160LL coax cable are shown below in this PDF. In addition to bulk RF cable, Pasternack offers cable assemblies using PE-P160LL 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		82.5		%
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-P160LL Coax Cable Triple Shielded with Green FEP Jacket PE-P160LL

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Low Loss Flexible PE-P160LL Coax Cable Triple Shielded with Green FEP Jacket

RF Cables
Technical Data Sheet

PE-P160LL

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	2	2.4	3	GHz
Attenuation, Max	6.9	11	15.8	17.3	19.4	dB/100ft
	22.64	36.09	51.84	56.76	63.65	dB/100m
Attenuation, Typ	6.3	10	14.3	15.7	17.7	dB/100ft
	20.67	32.81	46.92	51.51	58.07	dB/100m
Input Power (CW), Max	900	560			310	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	5	10	18			GHz
Attenuation, Max	25.4	36.7	50.6			dB/100ft
	83.33	120.41	166.01			dB/100m
Attenuation, Typ	23.1	33.4	46			dB/100ft
	75.79	109.58	150.92			dB/100m
Input Power (CW), Max	240	160	115			Watts

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

Mechanical Specifications

Diameter	0.16 in [4.06 mm]
Weight	0.027 lbs/ft [0.04 Kg/m]
Min. Bend Radius (Repeated)	0.8 in [20.32 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver, 1 Strand	0.04 in 1.02 mm
Conductor Type	Solid	
Dielectric	PTFE	0.11 in [2.79 mm]

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-P160LL Coax Cable Triple Shielded with Green FEP Jacket PE-P160LL

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Low Loss Flexible PE-P160LL Coax Cable Triple Shielded with Green FEP Jacket

First Shield	Silver Plated Copper 90% min. coverage	0.116 in 2.95 mm
Second Shield	Aluminum Polyester	0.122 in 3.1 mm
Third Shield	Silver Plated Copper 90% min. coverage	0.14 in 3.56 mm
Jacket	FEP, Green	0.16 in [4.06 mm]

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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URL: https://www.pasternack.com/50ohm-low-loss-flexible-pe-p160ll-coax-cable-triple-shielded-fep-jacket-p.aspx

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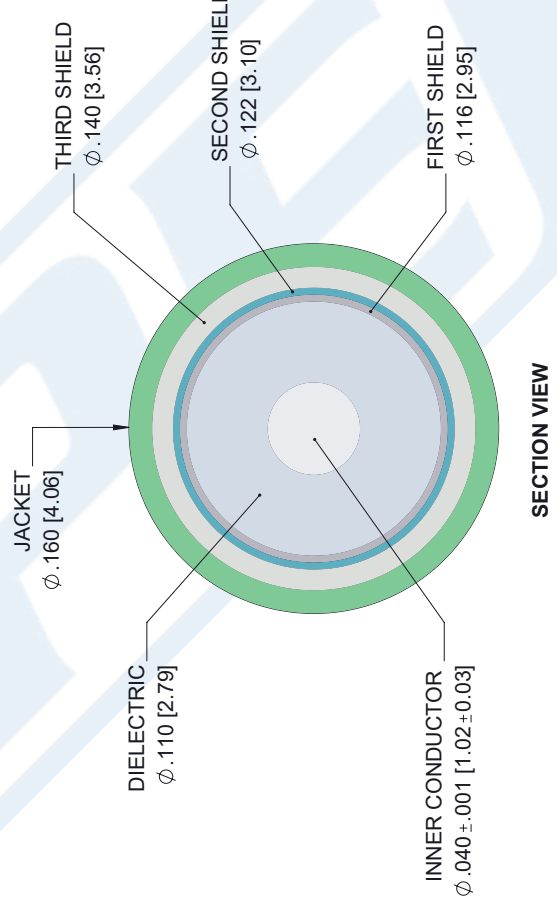
PE-P160LL CAD Drawing

Low Loss Flexible PE-P160LL Coax Cable Triple Shielded with Green FEP Jacket



SECTION VIEW

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/4/2020	S.ELLIS

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [5.08] | FRACTIONS ± 1/32
.XX = ± .02 [.51] |
.XXX = ± .005 [.13] | ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	K.DANG	PE-P160LL	A

THIRD-ANGLE PROJECTION

SHEET 1 OF 1

SCALE N/A

T-Rev.D