



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

RF Cables Technical Data Sheet

PE-P160LL-BULK

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
- Test systems with long cable runs
- Antenna Jumpers
- Rugged environments
- ATE, Automated Test Equipment

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.

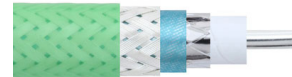
The 0.160 inch diameter coax has a durable FEP outer jacket that makes this cable appropriate for a wide range of indoor or outdoor applications. The flat foil braid provides superior shielding and the expanded PTFE dielectric contributes to the lower attenuation and improves the power handling of this 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-BULK](#)



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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.

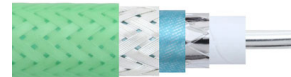
Mechanical Specifications

Diameter	0.16 in [4.06 mm]
Weight	0.025 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]

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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:

Low Loss Flexible PE-P160LL 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.

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-BULK](#)

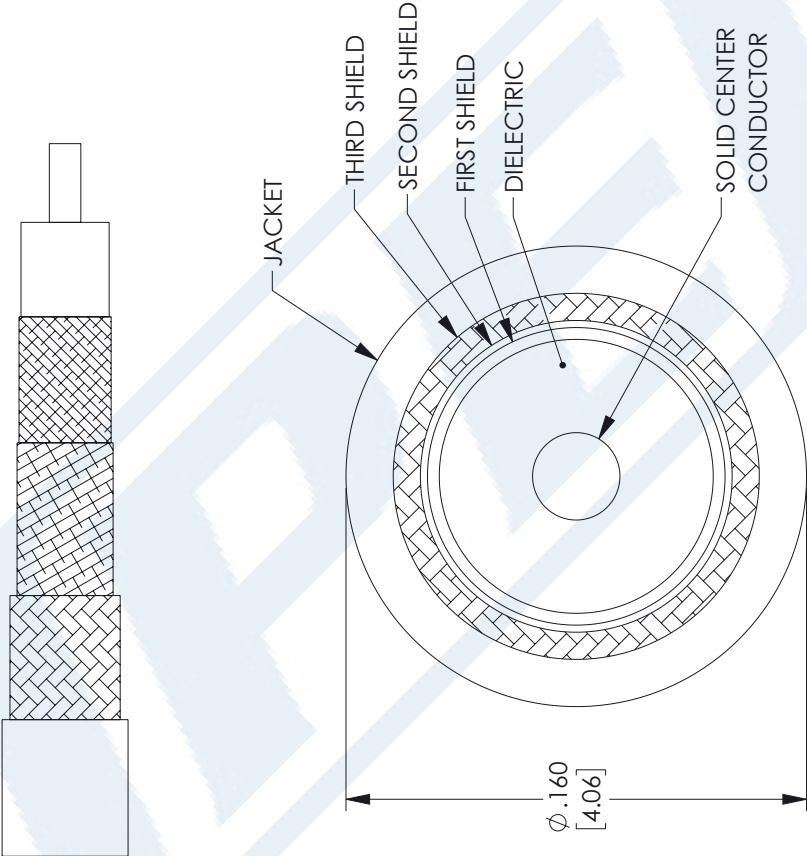
URL: <https://www.pasternack.com/50ohm-low-loss-flexible-pe-p160ll-coax-cable-triple-shielded-fep-jacket-bulk-p.aspx>

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.

PE-P160LL-BULK CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/07/2022	AGANWANI



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2	[.08] FRACTIONS
.XX = ± .02	[.51] ± 1/32
.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	ITEM NO.
A	PE-P160LL-BULK
DRAWN BY	REV
53919	A
DZINN	

THIRD-ANGLE PROJECTION	
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SCALE	N/A