



## 2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder

### TECHNICAL DATA SHEET

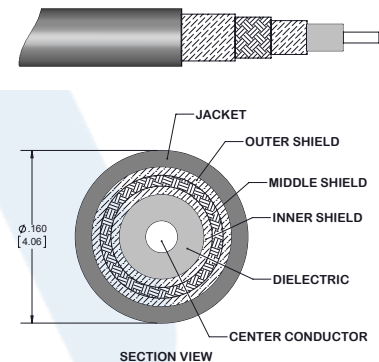
PE363LF

#### Configuration

- Connector 1: 2.4mm Male
- Connector 2: 2.4mm Male
- Cable Type: PE-P160
- Coax Flex Type: Flexible

#### Features

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 78% Phase Velocity
- Triple Shielded
- ETFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE363LF 2.4mm male to 2.4mm male cable using PE-P160 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P160 coax. The PE363LF 2.4mm male to 2.4mm male cable assembly operates to 40 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder PE363LF](#)



## 2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder

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**PE363LF**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	2500	5000	10000	20000	40000	
PE363LF	Custom Lengths Available	Insertion Loss (Typ.)	0.2	0.29	0.43	0.643	1.071	dB/ft	
			0.66	0.97	1.42	2.11	3.52	dB/m	
PE363LF-24	24 inch	Insertion Loss (Typ.)	0.6	0.79	1.06	1.49	2.35	dB	0.091
PE363LF-36	36 inch	Insertion Loss (Typ.)	0.8	1.08	1.49	2.13	3.42	dB	0.119
PE363LF-48	48 inch	Insertion Loss (Typ.)	1	1.38	1.92	2.78	4.49	dB	0.147
PE363LF-60	60 inch	Insertion Loss (Typ.)	1.2	1.67	2.35	3.42	5.56	dB	0.175
PE363LF-72	72 inch	Insertion Loss (Typ.)	1.4	1.96	2.78	4.06	6.63	dB	0.203

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.062 pounds
Additional Weight per Inch:	0.00234 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight 0.062 lbs [28.12 g]

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## 2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder

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#### Cable

Cable Type	PE-P160
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper
Jacket Material	ETFE, Gray
Jacket Diameter	0.155 in [3.94 mm]
Repeated Minimum Bend Radius	0.8 in [20.32 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male Threaded	2.4mm Male Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488 50µ In. Min	ASTM-B488 50µ In. Min
Dielectric Type	PEI	PEI
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 Inch	5/16 Inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]

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

#### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder PE363LF](#)



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PE-P160 Coax, LF Solder

**TECHNICAL DATA SHEET**

**PE363LF**

**How to Order**

Part Number Configuration:

**PE363LF - xx uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE363LF-12 = 12 inches long cable  
PE363LF-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder 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.

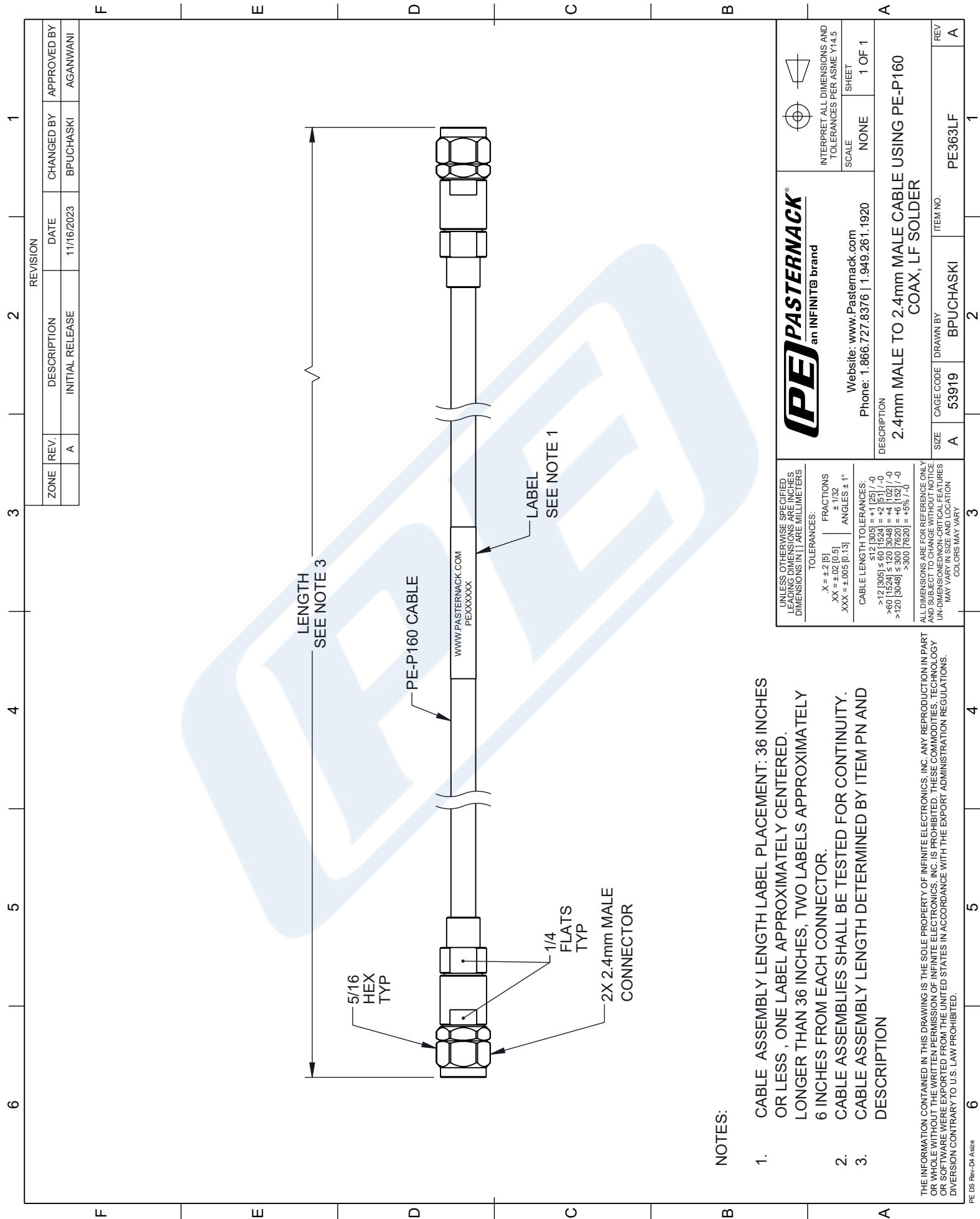
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URL: <https://www.pasternack.com/2.4mm-male-to-2.4mm-male-cable-using-pe-p160-lf-solder-pe363lf-p.aspx>

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.

# PE363LF CAD Drawing

2.4mm Male to 2.4mm Male Cable Using PE-P160 Coax, LF Solder



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	11/16/2023	BPUCHASKI	AGANWANI

**NOTES:**

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

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	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
	Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920
DESCRIPTION: <b>2.4mm MALE TO 2.4mm MALE CABLE USING PE-P160 COAX, LF SOLDER</b>	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	CAGE CODE: 53919 DRAWN BY: BPUCHASKI ITEM NO.: PE363LF
TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS: ±.1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: ≤ 12 [305] = ±.1 [2.5] / -0 ≤ 17 [432] = ±.1 [2.5] / -0 ≤ 20 [508] = ±.1 [2.5] / -0 ≤ 120 [3048] = ±.4 [10.2] / -0 ≤ 300 [7620] = ±.6 [15.2] / -0 > 300 [7620] = ±.9 [22.9] / -0	ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.