

2.4mm Male to 2.4mm Male Test Cable 100 CM Length Using PE-P160 Coax



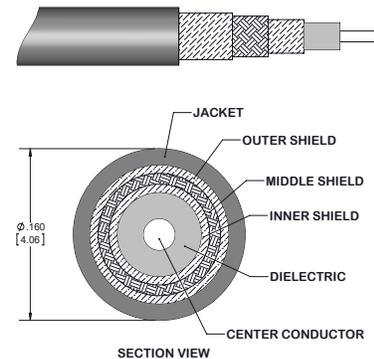
PE363-100CM

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
- Test & Measurement
- Laboratory Use

Description

Pasternack's PE363-100CM 2.4mm male to 2.4mm male 100 cm 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 PE363-100CM 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.

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

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Max.)	0.78	1.12	1.66	2.4	3.61	dB
Insertion Loss (Typ.)	0.655	0.988	1.466	2.178	3.294	dB

Mechanical Specifications

Cable Assembly

Weight 0.178 lbs [80.74 g]

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 0.16 in [4.06 mm]
 One Time Minimum Bend Radius 0.8 in [20.32 mm]
 Typical Flex Cycles 10,000

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488 50µ In. Minimum	ASTM-B488 50µ In. Minimum
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

Environmental Specifications

Operating Range Temperature -45 to +125 deg C

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

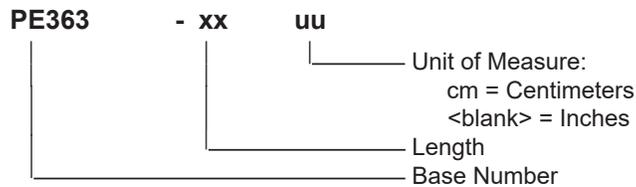
Plotted and Other Data

Notes:
Values at 25°C, sea level.

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE363-12 = 12 inches long cable
PE363-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Test Cable 100 CM Length Using PE-P160 Coax 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.

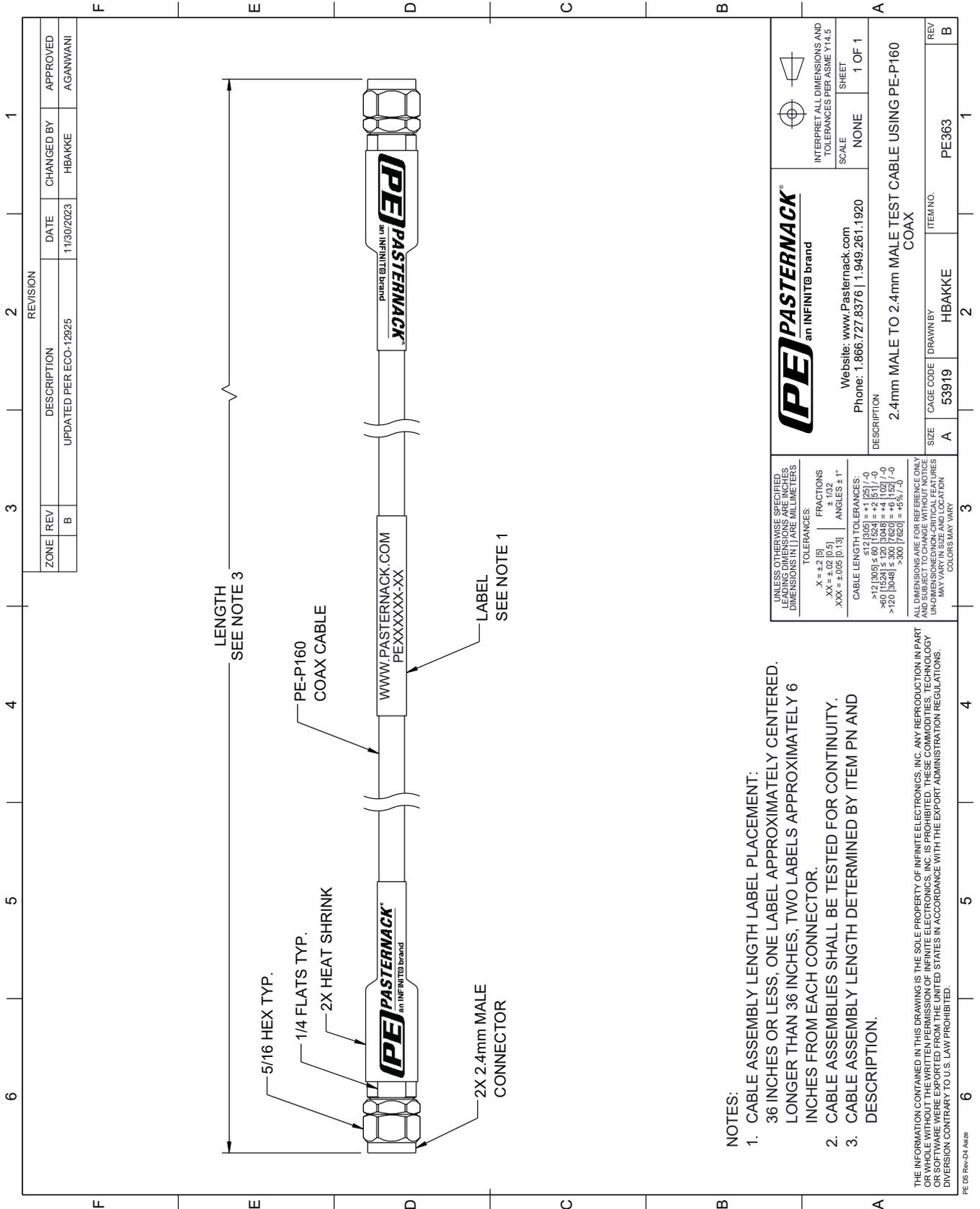
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male to 2.4mm Male Test Cable 100 CM Length Using PE-P160 Coax PE363-100CM](#)

URL: <https://www.pasternack.com/2.4mm-male-2.4mm-male-pe-p160-cable-assembly-pe363-100cm-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE363-100CM CAD Drawing

2.4mm Male to 2.4mm Male Test Cable 100 CM Length Using PE-P160 Coax



LENGTH
SEE NOTE 3

5/16 HEX TYP.

1/4 FLATS TYP.

2X HEAT SHRINK

PE-P160
COAX CABLE

WWW.PASTERNAK.COM
PEXXXX-XX

2X 2.4mm MALE
CONNECTOR

LABEL
SEE NOTE 1

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	B	UPDATED PER ECO-12925	HBAKKE	AGANWANI

PE PASTERNAK
an INFINITIB brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: 2.4mm MALE TO 2.4mm MALE TEST CABLE USING PE-P160 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	HBAKKE	PE363

- NOTES:**
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 FRACTIONS: ± 1/32
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
 >300 [7620] = ±.8 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PE DS Rev-04 Add2