

## N Male to N Male Low Loss Cable 120 Inch Length Using PE-C240 Coax



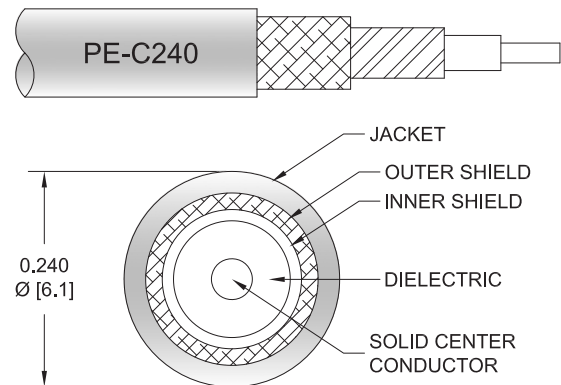
### PE37941-120

#### Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: PE-C240
- Coax Flex Type: Flexible

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE37941-120 type N male to type N male 120 inch cable using PE-C240 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible PE-C240 coax. The PE37941-120 type N male to type N male cable assembly operates to 5.8 GHz. The double 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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]

#### Specifications by Frequency

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Length Using PE-C240 Coax



**PE37941-120**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		250	500	1000	2500	
PE37941	Custom Lengths Available	Insertion Loss (Typ.)	0.042	0.062	0.089	0.145	0.23	dB/ft	
			0.14	0.21	0.3	0.48	0.76	dB/m	
PE37941-36	36 inch	Insertion Loss (Typ.)	0.33	0.39	0.47	0.64	0.89	dB	0.33
PE37941-48	48 inch	Insertion Loss (Typ.)	0.37	0.45	0.56	0.78	1.12	dB	0.36
PE37941-60	60 inch	Insertion Loss (Typ.)	0.41	0.51	0.65	0.93	1.35	dB	0.4
PE37941-72	72 inch	Insertion Loss (Typ.)	0.46	0.58	0.74	1.07	1.58	dB	0.44
PE37941-120	120 inch	Insertion Loss (Typ.)	0.62	0.82	1.09	1.65	2.5	dB	0.57

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: 0.0152 pounds  
 Additional Weight per Inch: 0.00259 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.83 in [21.08 mm]  
 Weight 0.57 lbs [258.55 g]

**Cable**

Cable Type PE-C240  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PE (F)  
 Number of Shields 2  
 Shield Layer 1 Aluminum Tape  
 Shield Layer 2 Tinned Copper Braid  
 Jacket Material PE, Black  
 Jacket Diameter 0.24 in [6.1 mm]  
 One Time Minimum Bend Radius 0.752 in [19.1 mm]  
 Repeated Minimum Bend Radius 2.5 in [63.5 mm]

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**PE37941-120**

**Connectors**

Description	Connector 1	Connector 2
Type	N Male	N Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	18 mm	18 mm
Torque	9 in-lbs 1.02 Nm	9 in-lbs 1.02 Nm

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

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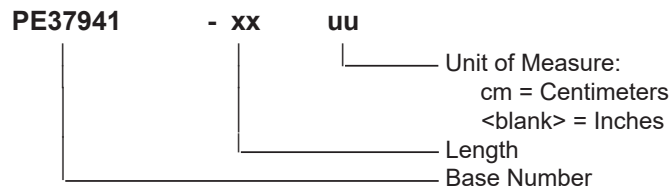


### PE37941-120

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE37941-12 = 12 inches long cable  
PE37941-100cm = 100 cm long cable

N Male to N Male Low Loss Cable 120 Inch Length Using PE-C240 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.

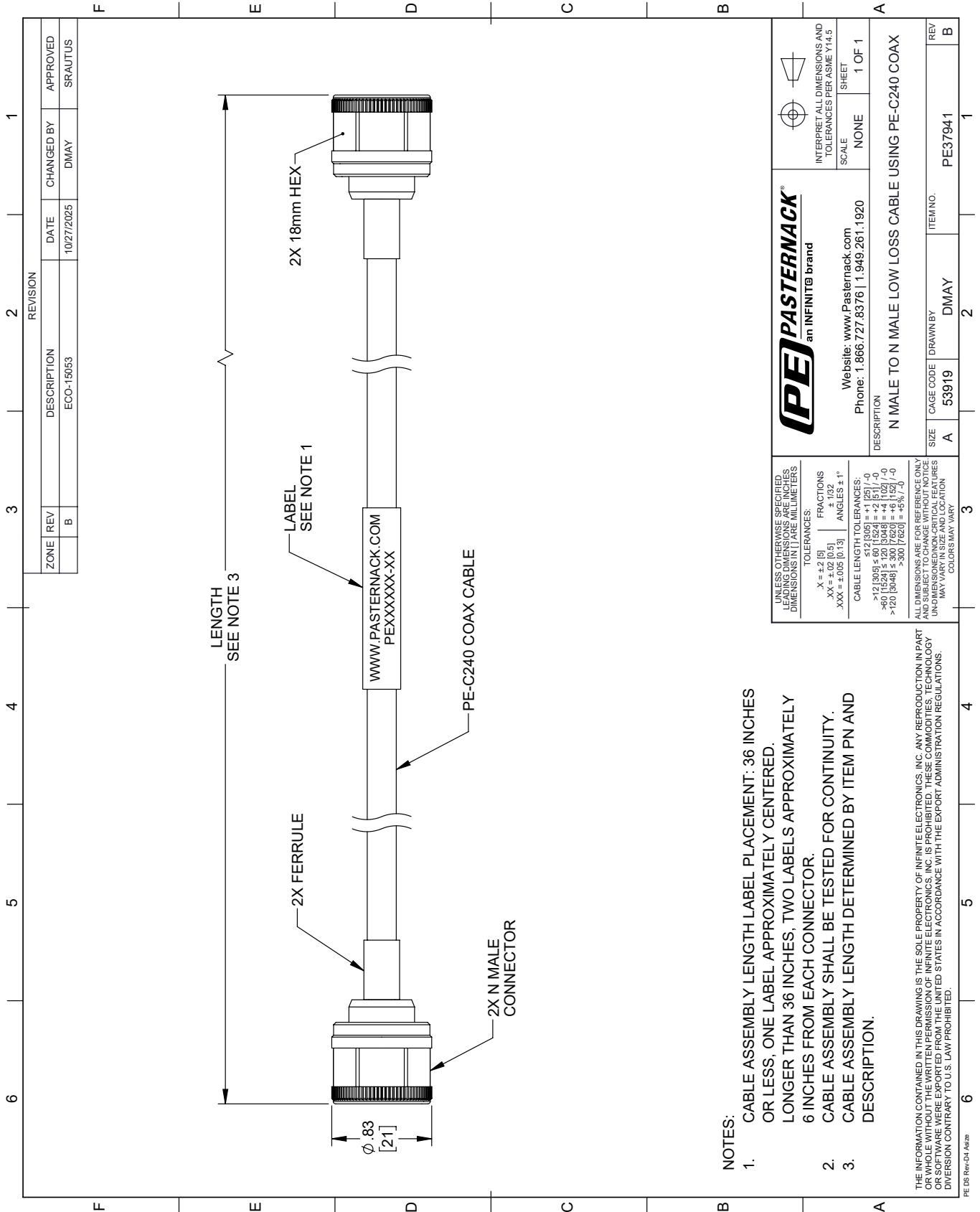
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Low Loss Cable 120 Inch Length Using PE-C240 Coax PE37941-120](#)

URL: <https://www.pasternack.com/n-male-to-n-male-low-loss-cable-120-inch-length-using-pe-c240-pe37941-120-p.aspx>

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# PE37941-120 CAD Drawing

N Male to N Male Low Loss Cable 120 Inch Length Using PE-C240 Coax




**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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
		SCALE	SHEET
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		NONE	1 OF 1
DESCRIPTION N MALE TO N MALE LOW LOSS CABLE USING PE-C240 COAX			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	DMAY	PE37941