



## TECHNICAL DATA SHEET

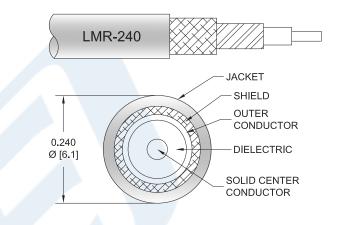
PE3C0093

## Configuration

- Connector 1: N FemaleConnector 2: N FemaleCable Type: LMR-240
- 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 PE3C0093 type N female to type N female cable using LMR-240 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 female to female gender configuration with 50 ohm flexible LMR-240 coax. The PE3C0093 type N female to type N female 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Female to N Female Low Loss Cable Using LMR-240 Coax PE3C0093

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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# PE3C0093

## **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
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Part Number Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Nulliber		Frequency	250	500	1000	2500	5800	MHz	
PE3C0093	Custom Lengths	Insertion Loss (Typ.)	0.04	0.06	0.08	0.12	0.2	dB/ft	
1 2300000	Available	1113C1 t1011 L033 (1 yp.)	0.13	0.19	0.26	0.4	0.66	dB/m	
PE3C0093-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.32	0.4	dB	0.171
PE3C0093-24	24 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.44	0.6	dB	0.204
PE3C0093-36	36 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.56	0.8	dB	0.237
PE3C0093-48	48 inch	Insertion Loss (Typ.)	0.36	0.42	0.52	0.68	1	dB	0.27
PE3C0093-60	60 inch	Insertion Loss (Typ.)	0.4	0.48	0.6	0.8	1.2	dB	0.303

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 dBLoss due to Connector 2:0.1 dBBase Weight:0.121 poundsAdditional Weight per Inch:0.002 pounds

## **Mechanical Specifications**

#### Cable Assembly

Weight 0.171 lbs [77.56 g]

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Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Shield Layer 1

Shield Layer 2

**Jacket Material** 

Jacket Diameter

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

**Bending Moment** Flat Plate Crush

Tensile Strength

LMR-240

50 Ohms

Solid

Copper

PE(F)

Aluminum Tape

**Tinned Copper Braid** 

PE, Black

0.24 in [6.1 mm]

0.75 in [19.05 mm]

2.5 in [63.5 mm]

0.25 lbs-ft [0.34 N-m]

20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2		
Туре	N Female Threaded	N Female Threaded		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

· Values at 25°C, sea level.

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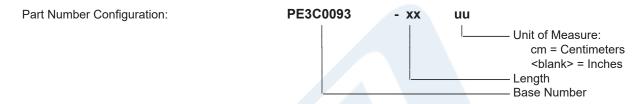




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PE3C0093

#### **How to Order**



Example: PE3C0093-12 = 12 inches long cable PE3C0093-100cm = 100 cm long cable

N Female to N Female Low Loss Cable Using LMR-240 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 Female to N Female Low Loss Cable Using LMR-240 Coax PE3C0093

URL: https://www.pasternack.com/n-female-to-n-female-low-loss-cable-using-lmr-240-pe3c0093-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.

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# PE3C0093 CAD Drawing

