



TECHNICAL DATA SHEET

PE3C2721

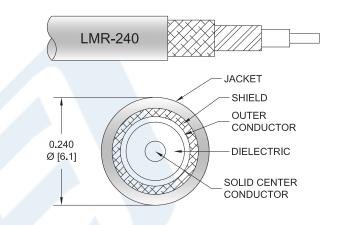
Configuration

Connector 1: N MaleConnector 2: N FemaleCable Type: LMR-240

· Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- · PE Jacket



Applications

General Purpose

Laboratory Use

Description

Pasternack's PE3C2721 type N male 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 male to female gender configuration with 50 ohm flexible LMR-240 coax. The PE3C2721 type N male to type N female cable assembly operates to 6 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 Male to N Female Low Loss Cable Using LMR-240 Coax PE3C2721

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	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

	7								
Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number Length	Length	Frequency	250	500	1000	2500	6000	MHz	weight (bs)
PE3C2721	Custom Lengths	Insertion Loss (Typ.)	0.04	0.06	0.08	0.13	0.2	dB/ft	
1 1302/21	Available	misertion Loss (Typ.)	0.14	0.2	0.27	0.43	0.66	dB/m	
PE3C2721-12	12 inch	Insertion Loss (Typ.)	0.19	0.24	0.28	0.39	0.55	dB	0.189
PE3C2721-24	24 inch	Insertion Loss (Typ.)	0.23	0.3	0.36	0.52	0.75	dB	0.222
PE3C2721-36	36 inch	Insertion Loss (Typ.)	0.27	0.36	0.44	0.65	0.95	dB	0.255
PE3C2721-48	48 inch	Insertion Loss (Typ.)	0.31	0.42	0.52	0.78	1.15	dB	0.288
PE3C2721-60	60 inch	Insertion Loss (Typ.)	0.35	0.48	0.6	0.91	1.35	dB	0.321

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*SQRT(FGHz) dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.00275 pounds
Additional Weight per Inch: 0.01142 pounds

Mechanical Specifications

Cable Assembly

Weight 0.189 lbs [85.73 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

 Moment
 0.25 lbs-ft [0.34 N-m]

 Crush
 20 lbs/in [0.36 Kg/mm

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

2.5 in [63.5 mm]

Aluminum Tape

0.24 in [6.1 mm]

0.75 in [19.05 mm]

Tinned Copper Braid

LMR-240

50 Ohms

Solid

Copper

PE(F)

PE, Black

Connectors

Description	Connector 1	Connector 2
Туре	N Male Threaded	N Female Threaded
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order



Example: PE3C2721-12 = 12 inches long cable PE3C2721-100cm = 100 cm long cable

N Male 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 Male to N Female Low Loss Cable Using LMR-240 Coax PE3C2721

URL: https://www.pasternack.com/n-male-to-n-female-low-loss-cable-using-lmr-240-pe3c2721-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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PE3C2721 CAD Drawing N Male to N Female Low Loss Cable Using LMR-240 Coax Ш

