



## N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-240 Coax

### TECHNICAL DATA SHEET

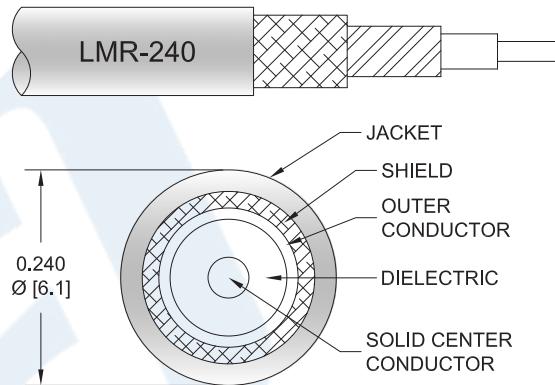
**PE3W02084**

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: LMR-240
- Coax Flex Type: Flexible

#### Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W02084 type N male right angle to BNC male right angle 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3W02084 type N male to BNC male cable assembly operates to 4 GHz. The right angle type N and right angle BNC interfaces on the LMR-240 cable allow for easier connections in tight spaces. 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 Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-240 Coax PE3W02084](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	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	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000		
PE3W02084	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.04	0.06	0.08	0.16	dB/ft	
			0.08	0.13	0.19	0.26	0.53	dB/m	
PE3W02084-12	12 inch	Insertion Loss (Typ.)	0.43	0.44	0.46	0.48	0.57	dB	0.178
PE3W02084-24	24 inch	Insertion Loss (Typ.)	0.45	0.48	0.51	0.56	0.73	dB	0.211
PE3W02084-36	36 inch	Insertion Loss (Typ.)	0.47	0.52	0.57	0.64	0.89	dB	0.244
PE3W02084-48	48 inch	Insertion Loss (Typ.)	0.5	0.56	0.62	0.72	1.05	dB	0.277
PE3W02084-60	60 inch	Insertion Loss (Typ.)	0.52	0.6	0.68	0.8	1.21	dB	0.31

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: 0.2 dB  
Loss due to Connector 2: 0.2 dB  
Base Weight: 0.178 pounds  
Additional Weight per Inch: 0.00275 pounds

#### Mechanical Specifications

##### Cable Assembly

Weight 0.178 lbs [80.74 g]

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## N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-240 Coax

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#### Cable

Cable Type	LMR-240
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	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle Threaded	BNC Male Right Angle Bayonet
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Material and Plating		Brass, Nickel

#### 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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## N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-240 Coax

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**PE3W02084**

#### How to Order

Part Number Configuration:

**PE3W02084**- **xx****uu**

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

Example: PE3W02084-12 = 12 inches long cable  
PE3W02084-100cm = 100 cm long cable

N Male Right Angle to BNC Male Right Angle 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 Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-240 Coax PE3W02084](#)

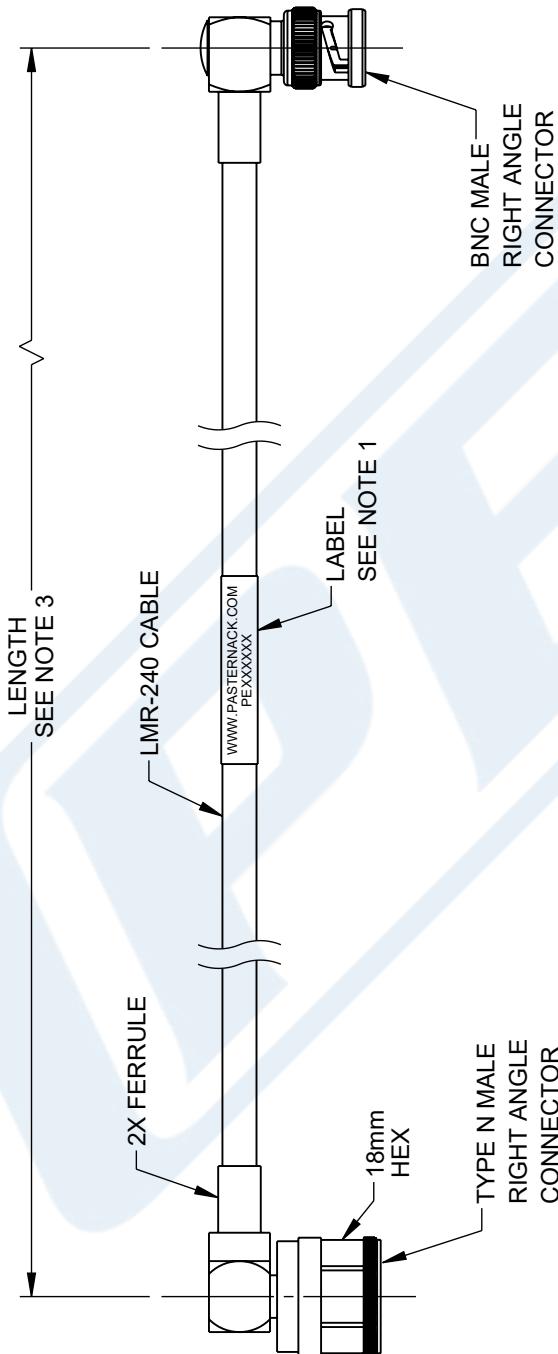
URL: <https://www.pasternack.com/n-male-right-angle-to-bnc-male-low-loss-cable-using-lmr-240-pe3w02084-p.aspx>

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.

PE3W02084 CAD Drawing

N Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-240 Coax

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
A		INITIAL RELEASE	10/09/2023	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

 <b>PASTERNACK®</b> an INFINITE® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET 1 OF 1	
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS [ ] ARE MILLIMETERS TOLERANCES:		FRACTIONS $X = \pm 2 [5]$ $XX = \pm 0.02 [0.13]$ $XXX = \pm 0.005 [0.13]$	± 1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: $>12 [305] \leq 12.5 [318] = +1 [-5]$ $>60 [1524] \leq 62 [1574] = +2 [-5]$ $>120 [3048] \leq 130 [3348] = +4 [-6]$ $>300 [7620] \leq 306 [7720] = +6 [-12]$ $>300 [7620] \leq 304 [7620] = -6 [-12]$ $>300 [7620] \leq 294 [7520] = -6 [-18]$		DESCRIPTION <b>N MALE RIGHT ANGLE TO BNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-240 COAX</b>	
WEBSITE: <a href="http://www.Pasternack.com">www.Pasternack.com</a> PHONE: 1.866.727.8376   1.949.261.1920		ITEM NO. <b>PE3W02084</b>	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY			
SIZE <b>A</b>	CAGE CODE <b>53919</b>	DRAWN BY <b>BPUCHASKI</b>	REV <b>A</b>

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