



## BNC Male to BNC Male Low Loss Cable Using LMR-240-UF Coax In 50 CM Length

### RF Cable Assemblies Technical Data Sheet

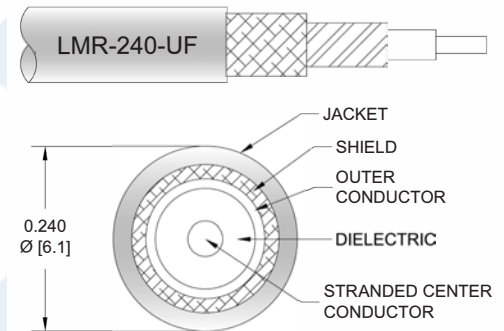
PE3C2156-50CM

#### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-240-UF

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C2156-50CM BNC male to BNC male 50 cm cable using LMR-240-UF 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 BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3C2156-50CM BNC male to BNC male cable assembly operates to 4 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: [BNC Male to BNC Male Low Loss Cable Using LMR-240-UF Coax In 50 CM Length PE3C2156-50CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.5:1	
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		4.28 [14.04]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		3.89 [12.76]		$\Omega$ /1000ft [ $\Omega$ /Km]
Jacket Spark			5,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.11	0.18	0.25	0.36	0.72	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

#### Mechanical Specifications

##### Cable Assembly

Length\* 19.68 in [499.87 mm]

Weight 0.076 lbs [34.47 g]

##### Cable

Cable Type LMR-240-UF

Impedance 50 Ohms

Inner Conductor Type Solid

Dielectric Type PE (F)

Number of Shields 2

Shield Layer 1 Tinned Copper

Shield Layer 2 Aluminum Tape

Jacket Material PE, Black

Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius 2.5 in [63.5 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel

**Environmental Specifications**

**Temperature**

Operating Range -40 to +125 deg C

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

**Plotted and Other Data**

Notes:

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## BNC Male to BNC Male Low Loss Cable Using LMR-240-UF Coax In 50 CM Length

### RF Cable Assemblies Technical Data Sheet

PE3C2156-50CM

#### How to Order

Part Number Configuration:

**PE3C2156**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C2156-12 = 12 inches long cable  
PE3C2156-100cm = 100 cm long cable

BNC Male to BNC Male Low Loss Cable Using LMR-240-UF Coax In 50 CM Length 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: [BNC Male to BNC Male Low Loss Cable Using LMR-240-UF Coax In 50 CM Length PE3C2156-50CM](https://www.pasternack.com/bnc-male-to-bnc-male-cable-50-cm-length-using-lmr-240-uf-pe3c2156-50cm)

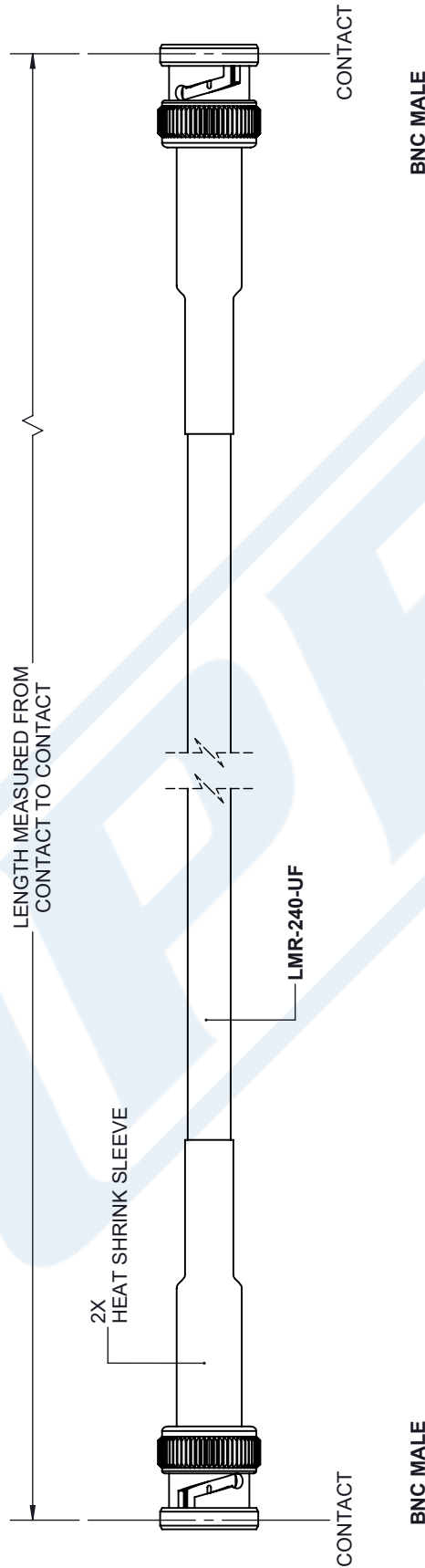
URL: <https://www.pasternack.com/bnc-male-to-bnc-male-cable-50-cm-length-using-lmr-240-uf-pe3c2156-50cm-p.aspx>

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# PE3C2156-50CM CAD Drawing

BNC Male to BNC Male Low Loss Cable Using LMR-240-UF Coax In 50 CM Length

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/5/2021	A. GANWANI



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [ .008 ]    FRACTIONS ± 1/32                  .XX = ±.02 [ .51 ]    ANGLES ± 1°                  .XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH (L), TOLERANCES:                  L ≤ 12 [305] = +1 [25] / -0                  12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0                  60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0                  120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0                  300 [7620] &lt; L = +5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p><b>PE PASTERNAK</b> an INFINITE brand</p> <p>Pasternack Enterprises, Inc.                  P. O. Box 16759, Irvine, CA 92623.                  Phone: 1.949.261.1920   1.866.727.8376                  Fax: 1.949.261.7451                  Website: www.pasternack.com                  E-mail: sales@pasternack.com</p>		<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
	<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PE3C2156</p>	<p>REV A</p>	

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