

75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm LMR-240-75-DB Coax with Times Microwave Components



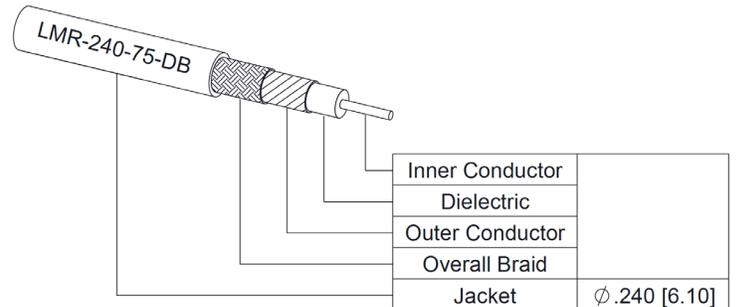
**PE3C10257**

**Configuration**

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-240-75-DB
- Coax Cable Group: 94

**Features**

- Max Frequency 2.5 GHz
- 84% Phase Velocity
- PE Jacket
- 500 Mating Cycles



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C10257 75 ohm BNC male to 75 ohm BNC male cable using 75 ohm LMR-240-75-DB coax is part of our full line of RF components available for same-day shipping. This Pasternack BNC to BNC cable assembly has a male to male gender configuration with 75 ohm LMR-240-75-DB coax. The PE3C10257 BNC male to BNC male cable assembly operates to 2.5 GHz.

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		2.5	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%

**Specifications by Frequency**

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3C10257	Custom Lengths Available	Insertion Loss (Typ.)	0.022	0.036	0.052	0.075	0.123	dB/ft	
			0.08	0.12	0.18	0.25	0.41	dB/m	
PE3C10257-12	12 Inch	Insertion Loss (Typ.)	0.09	0.14	0.2	0.28	0.44	dB	0.121
PE3C10257-24	24 Inch	Insertion Loss (Typ.)	0.11	0.18	0.25	0.35	0.57	dB	0.157
PE3C10257-36	36 Inch	Insertion Loss (Typ.)	0.13	0.21	0.3	0.43	0.69	dB	0.192
PE3C10257-48	48 Inch	Insertion Loss (Typ.)	0.16	0.25	0.35	0.5	0.81	dB	0.227
PE3C10257-60	60 Inch	Insertion Loss (Typ.)	0.18	0.28	0.41	0.58	0.94	dB	0.262

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\*SQRT(FGHz) dB  
 Base Weight: 0.121 pounds  
 Additional Weight per Inch: 0.00292 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.121 lbs [54.88 g]

**Cable**

Cable Type LMR-240-75-DB  
 Impedance 75 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper  
 Dielectric Type Foam PE  
 Outer Conductor 1 Material and Plating Aluminum Tape  
 Outer Conductor Diameter 0.155 in [3.94 mm]  
 Jacket Material PE  
 Jacket Diameter 0.24 in [6.1 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	BNC Male	BNC Male
Impedance	75 Ohms	75 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold over Nickel over Copper	Brass, Gold over Nickel over Copper
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin minimum	80 µin minimum

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**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

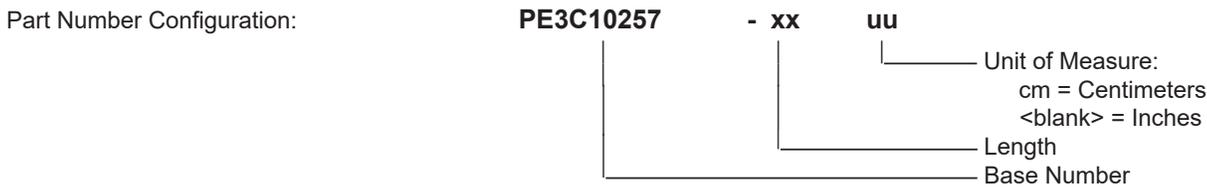
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

**How to Order**



Example: PE3C10257-12 = 12 inches long cable  
PE3C10257-100cm = 100 cm long cable

75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm LMR-240-75-DB Coax with Times Microwave Components 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: [75 Ohm BNC Male to 75 Ohm BNC Male Low Loss Cable Using 75 Ohm LMR-240-75-DB Coax with Times Microwave Components PE3C10257](#)

URL: <https://www.pasternack.com/75-ohm-bnc-male-to-75-ohm-bnc-male-low-loss-cable-using-lmr-240-75-db-pe3c10257-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3C10257 CAD Drawing

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