



**BNC Male to SMA Male Low Loss Cable 50 CM  
Length Using PE-C240 Coax , LF Solder**

**RF Cable Assemblies Technical Data Sheet**

**PE38656LF-50CM**

**Configuration**

- Connector 1: BNC Male
- Connector 2: SMA Male
- Cable Type: PE-C240

**Features**

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

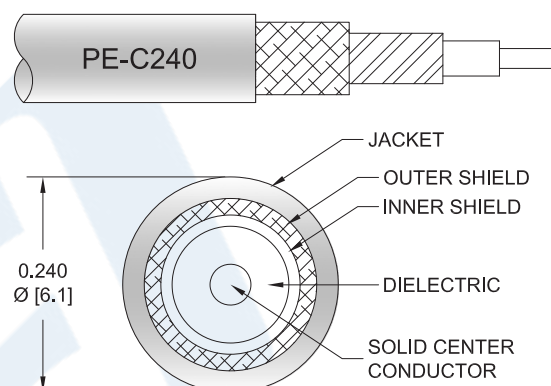
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE38656LF-50CM BNC male to SMA male 50 cm cable using PE-C240 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-C240 coax. The PE38656LF-50CM BNC male to SMA male 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: [BNC Male to SMA Male Low Loss Cable 50 CM Length Using PE-C240 Coax , LF Solder PE38656LF-50CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Velocity of Propagation		84		%
RF Shielding	90			dB
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Jacket Spark			5,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.26	0.3	0.34	0.43	0.57	dB

#### Electrical Specification Notes:

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

#### Mechanical Specifications

##### Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.57 in [14.48 mm]

##### Cable

Cable Type	PE-C240
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]

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#### Connectors

Description	Connector 1	Connector 2
Type	BNC Male	SMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	POM	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Coupling Nut Material and Plating		Brass, Gold
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

Storage 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**

Part Number Configuration:

**PE38656LF**

- **xx**

**uu**

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

Example: PE38656LF-12 = 12 inches long cable  
PE38656LF-100cm = 100 cm long cable

BNC Male to SMA Male Low Loss Cable 50 CM Length Using PE-C240 Coax , LF Solder 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 SMA Male Low Loss Cable 50 CM Length Using PE-C240 Coax , LF Solder PE38656LF-50CM](https://www.pasternack.com/bnc-male-sma-male-pe-c240-cable-assembly-pe38656lf-50cm-p.aspx)

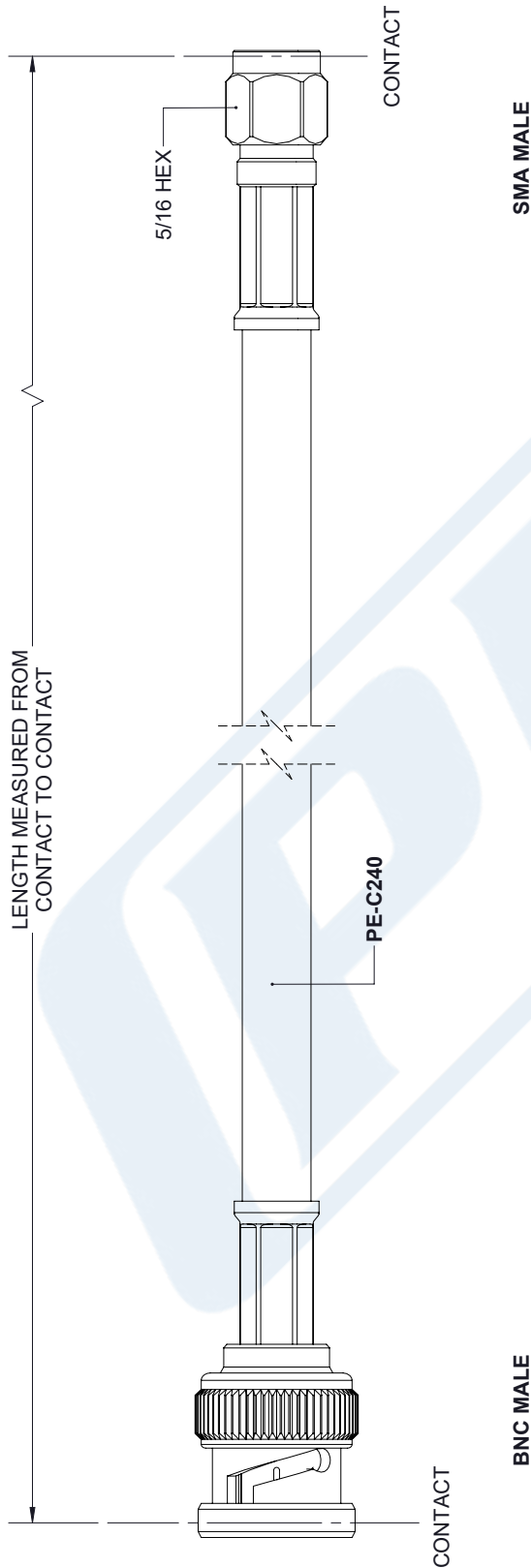
URL: <https://www.pasternack.com/bnc-male-sma-male-pe-c240-cable-assembly-pe38656lf-50cm-p.aspx>

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.

# PE38656LF-50CM CAD Drawing

BNC Male to SMA Male Low Loss Cable 50 CM Length Using PE-C240 Coax , LF Solder

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/10/2020	S.E.L.L.S



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS				THIRD-ANGLE PROJECTION			
TOLERANCES:				 THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.			
X = ± .2 [ .08 ]      FRACTIONS .XX = ± .02 [ .51 ]      ± 1/32 XXX = ± .005 [ .13 ]      ANGLES ± °							
CABLE LENGTH (L) TOLERANCES:				SHEET 1 OF 1			
L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5% L / -0				SCALE N/A			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				REV A			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV			
A	53919	K.DANG	PE38656LF				
PE PASTERNAK® an INFINITI® brand				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			

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