



BNC Male to SMA Male Low Loss Cable 12 Inch  
Length Using PE-C240 Coax , LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE38656LF-12**

### 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

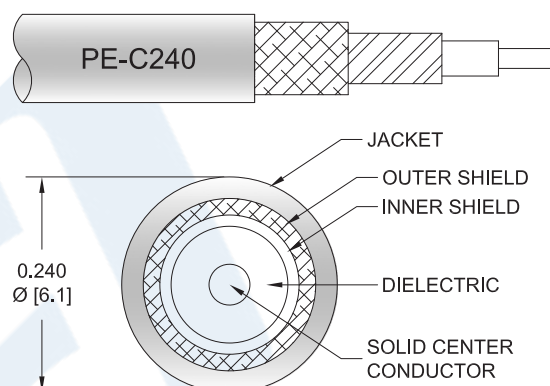
### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE38656LF-12 BNC male to SMA male 12 inch 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-12 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 12 Inch Length Using PE-C240 Coax , LF Solder PE38656LF-12](#)



BNC Male to SMA Male Low Loss Cable 12 Inch  
Length Using PE-C240 Coax , LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE38656LF-12**

### 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.) | 0.24 | 0.26 | 0.29 | 0.34 | 0.43 | 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*  | 12 in [304.8 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]    |

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 12 Inch Length Using PE-C240 Coax , LF Solder PE38656LF-12](#)



BNC Male to SMA Male Low Loss Cable 12 Inch  
Length Using PE-C240 Coax , LF Solder

## RF Cable Assemblies Technical Data Sheet

**PE38656LF-12**

### 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:

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 12 Inch Length Using PE-C240 Coax , LF Solder PE38656LF-12](#)



## BNC Male to SMA Male Low Loss Cable 12 Inch Length Using PE-C240 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE38656LF-12**

#### 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 12 Inch 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 12 Inch Length Using PE-C240 Coax , LF Solder PE38656LF-12](https://www.pasternack.com/bnc-male-sma-male-pe-c240-cable-assembly-pe38656lf-12-p.aspx)

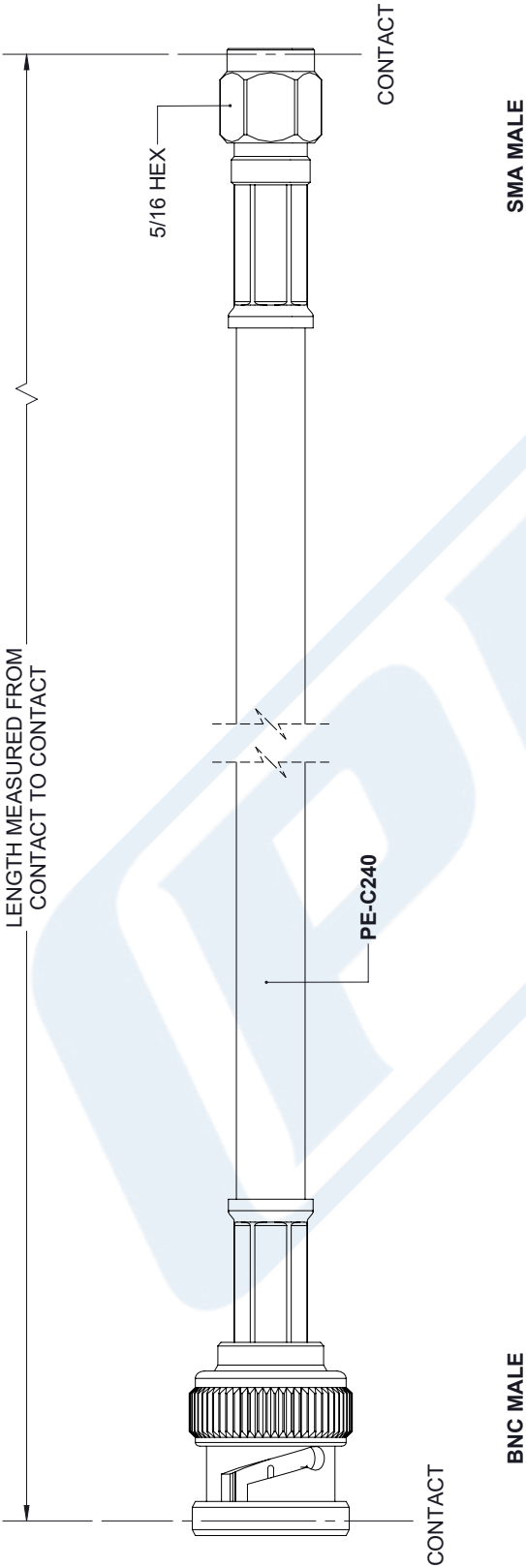
URL: <https://www.pasternack.com/bnc-male-sma-male-pe-c240-cable-assembly-pe38656lf-12-p.aspx>

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-12 CAD Drawing

BNC Male to SMA Male Low Loss Cable 12 Inch Length Using PE-C240 Coax , LF Solder

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 3/10/2020 | S ELLIS  |



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

|               |       |             |
|---------------|-------|-------------|
| .X = ± .2     | [.08] | FRACTIONS   |
| .XX = ± .02   | [.51] | ± 1/32      |
| .XXX = ± .005 | [.13] | ANGLES ± 1° |

**CABLE LENGTH (L) TOLERANCES:**

|                             |                 |
|-----------------------------|-----------------|
| 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    |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**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

THIRD-ANGLE PROJECTION

THE INFORMATION AND  
DESIGN IN THIS DOCUMENT  
IS THE PROPERTY OF  
PASTERNAK CORPORATION  
ALL RIGHTS RESERVED.

SHEET 1 OF 1  
SCALE N/A

|      |           |          |           |
|------|-----------|----------|-----------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO.  |
| A    | 53919     | K.DANG   | PE38656LF |
| REV  |           |          | A         |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.