



## N Female Bulkhead Mount Connector Crimp/ Solder Attachment for LMR-240, PE-C240

### RF Connectors Technical Data Sheet



TC-240-NF-BH-X

### Times Microwave Systems Connector Specification

#### Configuration

- N Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: LMR-240, PE-C240
- Bulkhead

#### Features

- Max. Operating Frequency 8 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact
- 50  $\mu$ m contact plating

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

#### Description

Pasternack's TC-240-NF-BH-X type N female bulkhead connector with crimp/solder attachment for LMR-240 and PE-C240 is part of our full line of RF components available for same-day shipping. Our type N female connector operates up to a maximum frequency of 8 GHz and offers good VSWR of 1.3:1. This type N bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our type N female bulkhead connector TC-240-NF-BH-X datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 8       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Insertion Loss                       |         |         | 0.28    | dB    |
| Dielectric Withstanding Voltage (AC) |         |         | 1,500   | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |

#### Mechanical Specifications

##### Size

|            |                     |
|------------|---------------------|
| Length     | 1.73 in [43.94 mm]  |
| Width/Dia. | 0.81 in [20.57 mm]  |
| Weight     | 0.092 lbs [41.73 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Connector Crimp/Solder Attachment for LMR-240, PE-C240 TC-240-NF-BH-X](#)



## N Female Bulkhead Mount Connector Crimp/ Solder Attachment for LMR-240, PE-C240

### RF Connectors Technical Data Sheet



TC-240-NF-BH-X

#### Material Specifications

| Description     | Material         | Plating                 |
|-----------------|------------------|-------------------------|
| Contact         | Beryllium Copper | Gold<br>50 µinches      |
| Insulation      | PTFE             |                         |
| Outer Conductor | Brass            | Tri-Metal<br>80 µinches |
| Body            | Brass            | Tri-Metal               |

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

Shock

MIL-STD 202G, Meth. 213, Cond. I

Vibration

MIL-STD 202G, Meth. 204, Cond. B

Thermal Shock

MIL-STD 202G, Meth. 107, Cond. B

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

#### Plotted and Other Data

Notes:

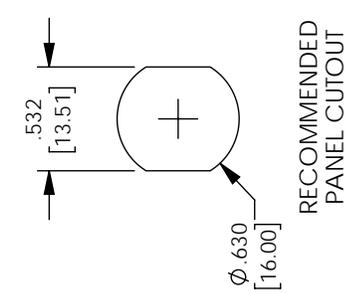
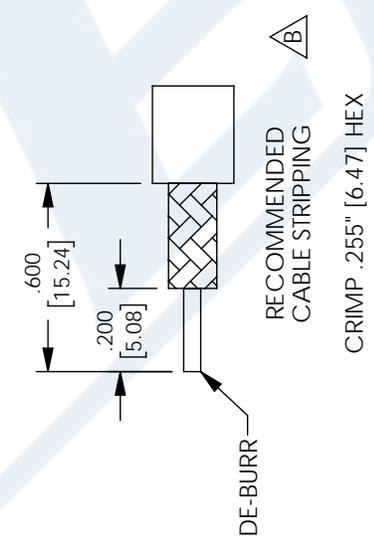
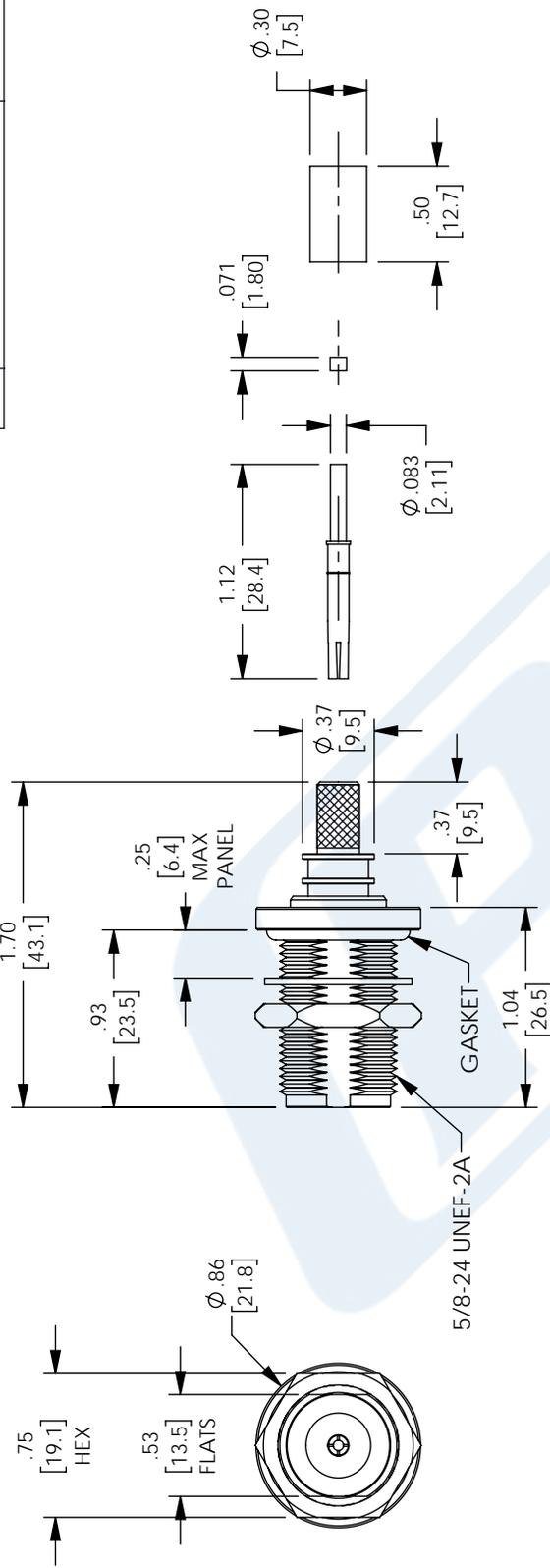
N Female Bulkhead Mount Connector Crimp/Solder Attachment for LMR-240, PE-C240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Female Bulkhead Mount Connector Crimp/Solder Attachment for LMR-240, PE-C240 TC-240-NF-BH-X](#)

URL: <https://www.pasternack.com/n-female-lmr-240-pe-c240-connector-tc-240-nf-bh-x-p.aspx>

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| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| B         | INITIAL RELEASE | 07/01/2021 | SELLIS   |



|   |  |
|---|--|
| <p><b>PE PASTERNAK</b><br/>an INFINITI brand</p> <p>Pasternack Enterprises, Inc.<br/>P. O. Box 16759, Irvine, CA 92623.<br/>Phone: 1.949.261.1920   1.866.727.8376<br/>Fax: 1.949.261.7451<br/>Website: www.pasternack.com<br/>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>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [5.08] FRACTIONS<br/>.XX = ±.02 [ .51] ±.1/32<br/>.XXX = ±.005 [ .13] ANGLES ± 1°</p> <p>CABLE LENGTH (L), TOLERANCES:<br/>L ≤ 12 [305] = +1 [25] / -0<br/>12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0<br/>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0<br/>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0<br/>300 [7620] &lt; L = +5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> |
| <p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY DFRISIELLO</p> <p>ITEM NO. TC-240-NF-BH-X</p>  | <p>REV B</p>   |

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# SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240

## RF Connectors Technical Data Sheet



EZ-240-SM-RA-X

### Times Microwave Systems Connector Specification

#### Configuration

- SMA Male Connector
- MIL-STD-348
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: LMR-240
- 5/16 Inch Hex

#### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Gold Plated Brass/Phosphor Bronze Contact
- 50 µinch contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Times Microwave's EZ-240-SM-RA-X SMA male right angle connector offered by Pasternack with crimp/non-solder contact attachment for Times' LMR-240 is part of our full line of RF components available for same-day shipping. Times Microwave's SMA male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. Its right angle body geometry allows for easier connections in tight spaces.

Times Microwave's SMA male right angle connector EZ-240-SM-RA-X datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 6       | GHz   |
| VSWR                                 |         |         | 1.3:1   |       |
| Insertion Loss                       |         |         | 0.25    | dB    |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   | Vrms  |
| Insulation Resistance                | 5,000   |         |         | MOhms |

#### Mechanical Specifications

##### Size

|            |                     |
|------------|---------------------|
| Length     | 0.725 in [18.42 mm] |
| Width/Dia. | 0.312 in [7.92 mm]  |
| Height     | 0.88 in [22.35 mm]  |
| Weight     | 0.021 lbs [9.53 g]  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240 EZ-240-SM-RA-X](#)



SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240

RF Connectors  
Technical Data Sheet



EZ-240-SM-RA-X

Mating Cycles 500 Cycles  
Mating Torque 7 to 10 in-lbs [0.79 to 1.13 Nm]

**Material Specifications**

| Description  | Material              | Plating               |
|--------------|-----------------------|-----------------------|
| Contact      | Brass/Phosphor Bronze | Gold<br>50 µinch      |
| Insulation   | Teflon                |                       |
| Body         | Brass                 | Tri-Metal<br>80 µinch |
| Coupling Nut | Brass                 | Tri-Metal<br>80 µinch |

**Environmental Specifications**

**Temperature**

Operating Range -40 to +125 deg C  
Shock MIL-STD 202G, Meth.213, Cond I  
Vibration MIL-STD 202G, Meth.204, Cond D  
Thermal Shock MIL-STD 202G, Meth.107, Cond B

**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: [SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240 EZ-240-SM-RA-X](#)



## SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240

### RF Connectors Technical Data Sheet



EZ-240-SM-RA-X

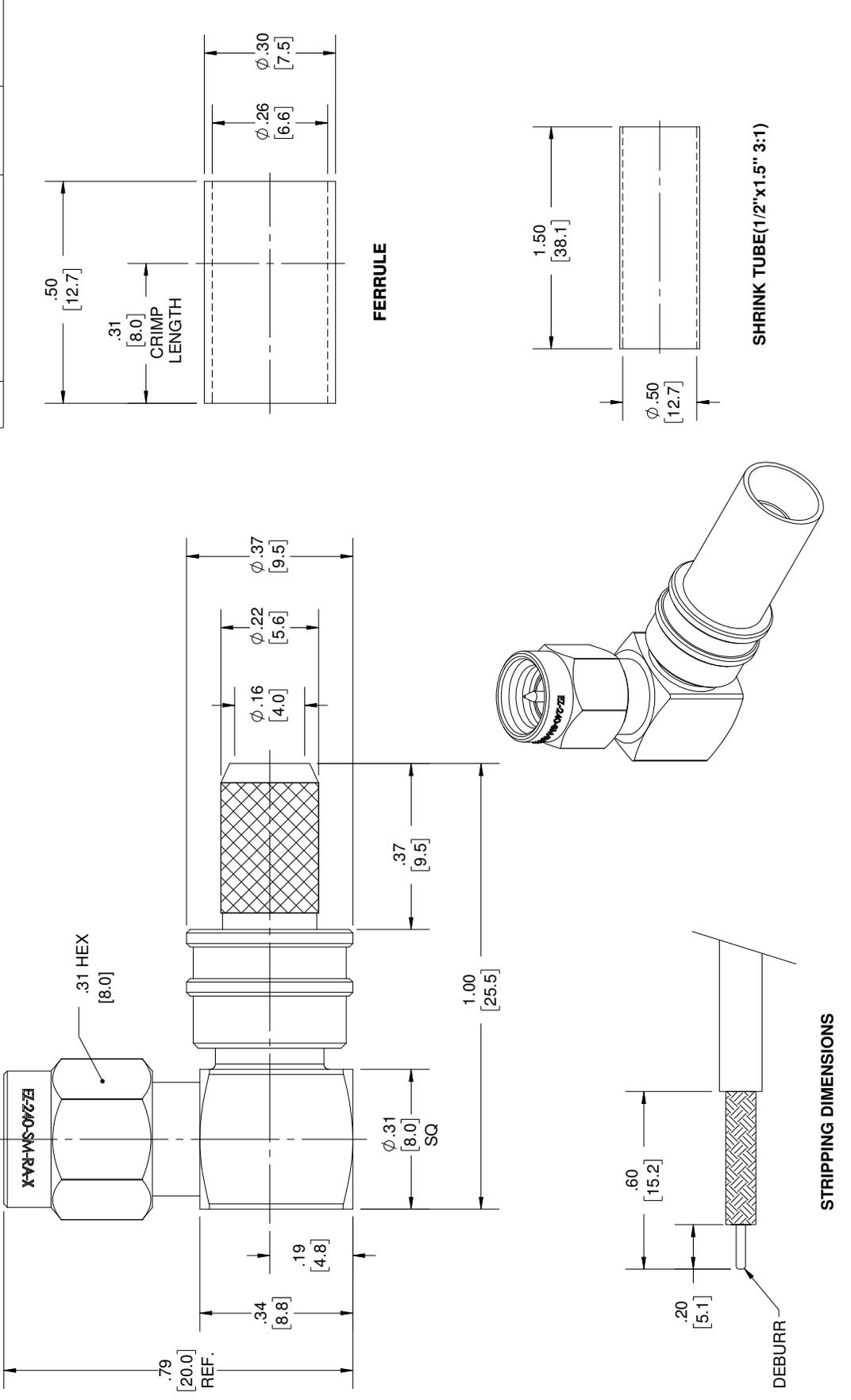
SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Crimp/Non-Solder Contact Attachment for LMR-240 EZ-240-SM-RA-X](https://www.pasternack.com/sma-male-lmr-240-connector-ez-240-sm-ra-x-p.aspx)

URL: <https://www.pasternack.com/sma-male-lmr-240-connector-ez-240-sm-ra-x-p.aspx>

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| REVISIONS |                             |            |          |
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| B         | PCR EZ-240-SM-RA-X 20200511 | 06/15/2020 | SRAUTUS  |



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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE A CAGE CODE A 53919 DRAWN BY K.DANG PART NUMBER EZ-240-SM-RA-X REV B

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

TOLERANCES:

X = +.2 [5.08] FRACTIONS  
 XX = ±.02 [ .51 ] ±.1/32  
 XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +.1 [2.5] / -0  
 12 [305] < L ≤ 60 [1524] = +.2 [5.1] / -0  
 60 [1524] < L ≤ 120 [3048] = +.4 [10.2] / -0  
 120 [3048] < L ≤ 300 [7620] = +.6 [15.2] / -0  
 300 [7620] < L = +.9%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**STRIPPING DIMENSIONS**

- NOTES:
- CABLE ATTACHMENT:
    - OUTER: CRIMP.
    - INNER: NON-SOLDER.
  - CRIMP SIZE REQUIRED:
    - FERRULE: .255 [6.48] HEX. CRIMP TOOL.

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## Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket

### TECHNICAL DATA SHEET

PE-C240

Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket

#### Configuration

|                                      |                                    |
|--------------------------------------|------------------------------------|
| Cable Design                         | Low Loss                           |
| Inner Conductor Material and Plating | Copper                             |
| Dielectric Type                      | PE (F)                             |
| Shield Materials                     | Aluminum Tape, Tinned Copper Braid |
| Jacket Material and Color            | PE, Black                          |

#### Electrical Specifications

|                                  |             |
|----------------------------------|-------------|
| Impedance, Ohms                  | 50          |
| Velocity of Propagation, %       | 84          |
| Maximum Operating Frequency, GHz | 5.8         |
| RF Shielding, dB                 | 90          |
| Capacitance, pF/ft [pF/m]        | 24.2 [79.4] |

#### Electrical Specifications by Frequency

##### Frequency 1

|                                 |             |
|---------------------------------|-------------|
| Frequency, MHz                  | 150         |
| Attenuation, dB/100ft [dB/100m] | 3.4 [11.15] |
| Power Handling, Watts           | 660         |

##### Frequency 2

|                                 |              |
|---------------------------------|--------------|
| Frequency, MHz                  | 450          |
| Attenuation, dB/100ft [dB/100m] | 5.95 [19.52] |
| Power Handling, Watts           | 380          |

##### Frequency 3

|                                 |              |
|---------------------------------|--------------|
| Frequency, MHz                  | 900          |
| Attenuation, dB/100ft [dB/100m] | 8.58 [28.15] |
| Power Handling, Watts           | 260          |

##### Frequency 4

|                                 |               |
|---------------------------------|---------------|
| Frequency, GHz                  | 1.5           |
| Attenuation, dB/100ft [dB/100m] | 11.18 [36.68] |
| Power Handling, Watts           | 200           |

##### Frequency 5

|                                 |            |
|---------------------------------|------------|
| Frequency, GHz                  | 2          |
| Attenuation, dB/100ft [dB/100m] | 13 [42.65] |
| Power Handling, Watts           | 170        |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket PE-C240](#)

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## Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket

### TECHNICAL DATA SHEET

PE-C240

#### Frequency 6

|                                 |               |
|---------------------------------|---------------|
| Frequency, GHz                  | 2.5           |
| Attenuation, dB/100ft [dB/100m] | 14.55 [47.74] |
| Power Handling, Watts           | 150           |

#### Frequency 7

|                                 |            |
|---------------------------------|------------|
| Frequency, GHz                  | 5.8        |
| Attenuation, dB/100ft [dB/100m] | 23 [75.46] |
| Power Handling, Watts           | 100        |

#### Mechanical Specifications

##### Temperature

|                        |            |
|------------------------|------------|
| Operating Range, deg C | -40 to +85 |
| Storage Range, deg C   | -40 to +85 |

##### Inner Conductor

|                   |              |
|-------------------|--------------|
| Number of Strands | 1            |
| Material          | Copper       |
| Diameter, in [mm] | 0.057 [1.45] |

##### Dielectric:

|                   |             |
|-------------------|-------------|
| Type              | PE (F)      |
| Diameter, in [mm] | 0.15 [3.81] |

##### Shield:

|                   |                     |
|-------------------|---------------------|
| Number of         | 2                   |
| Material 1        | Aluminum Tape       |
| Material 2        | Tinned Copper Braid |
| Diameter, in [mm] | 0.178 [4.52]        |

##### Jacket:

|                                       |              |
|---------------------------------------|--------------|
| Material                              | PE           |
| Diameter, in [mm]                     | 0.24 [6.1]   |
| Color                                 | Black        |
| One Time Minimum Bend Radius, in [mm] | 0.752 [19.1] |
| Repeated Minimum Bend Radius, in [mm] | 2.5 [63.5]   |
| Weight, lbs/ft [Kg/m]                 | 0.033 [0.05] |

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                |     |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket PE-C240](#)

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Low Loss Flexible RG8X Type Coax Cable  
Double Shielded with Black PE Jacket

TECHNICAL DATA SHEET

PE-C240

**Plotted and Other Data**

Notes:

Values at 25 °C, sea level

Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

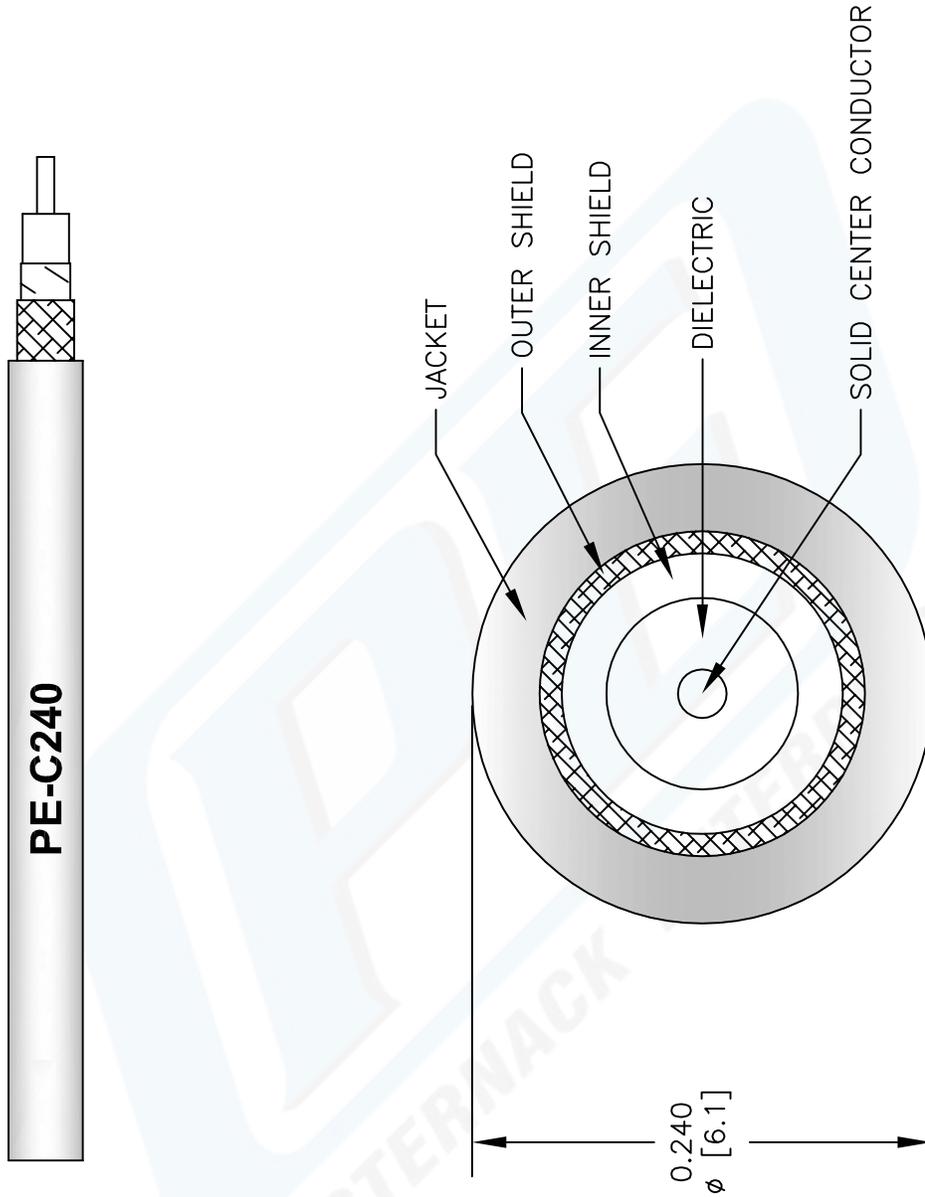
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket PE-C240](#)

URL: <http://www.pasternack.com/flexible-0.240-50-ohm-coax-cable-pe-jacket-pe-c240-p.aspx>

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# PE-C240 CAD Drawing

Low Loss Flexible RG8X Type Coax Cable Double Shielded with Black PE Jacket



NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES (mm).

DWG TITLE  
**PE-C240**

|        |                |          |        |       |     |      |   |
|--------|----------------|----------|--------|-------|-----|------|---|
| REV. B | FSCM NO. 53919 | CAD FILE | 050709 | SCALE | N/A | SIZE | A |
|--------|----------------|----------|--------|-------|-----|------|---|

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