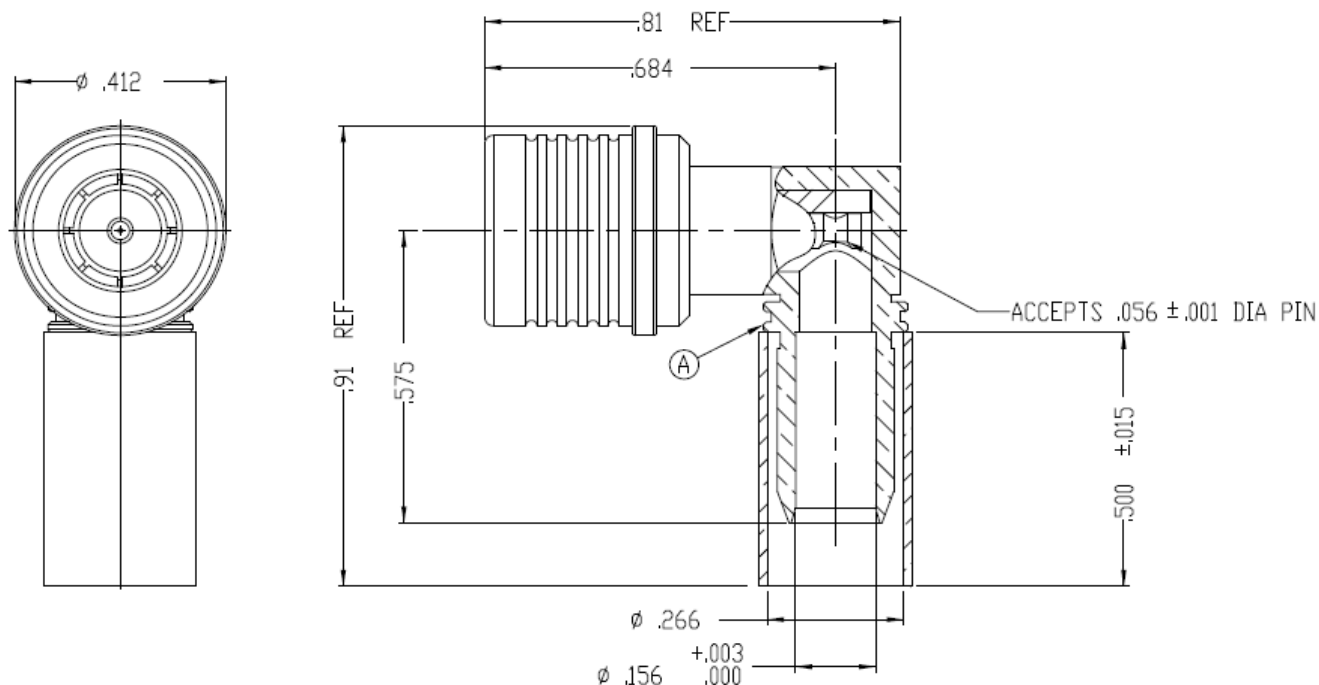


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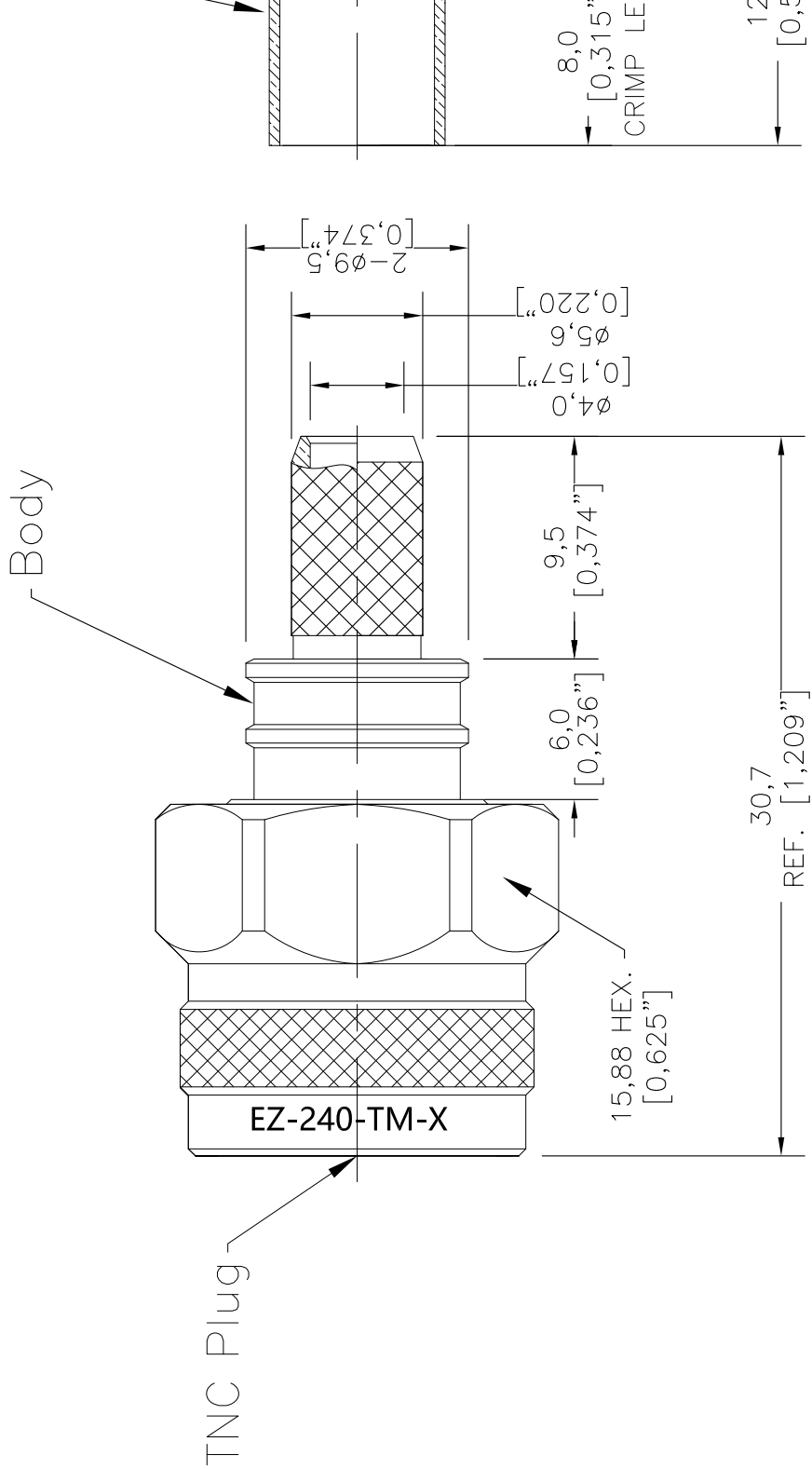
| SYM | REVISION DESCRIPTION    | DFTM  | DATE   | APPD   | DATE    |
|-----|-------------------------|-------|--------|--------|---------|
| A   | RELEASED FOR PRODUCTION | N.N.N | 9/4/13 | J.D.B. | 9/10/13 |



#### NOTES:

- ASSEMBLED CONNECTOR INTERFACE IS DESIGNED TO MATE WITH STANDARD QMA JACK.
- MATERIAL:  
 BODY, COUPLING SLEEVE - BRASS PER ASTM B16, C36000 ALLOY, TEMPER H02  
 INSULATOR - TEFLON PER ASTM D1710, TYPE 1, GRADE 1, CLASS A  
 SHRINK SLEEVE - HEAT SHRINKABLE ATUM PER MIL-I-23053/4 (NOT SHOWN)  
 CRIMP SLEEVE - D.H.P. COPPER CDA, ALLOY #122, TEMPER HARD  
 CONTACT - BERYLLIUM COPPER PER ASTM B196, C17300 ALLOY, CONDITION HT  
 CONTACT FINGER - PHOSPHOR BRONZE PER ASTM B139, C54400 ALLOY, TEMPER HD
- FINISH:  
 CONTACT & FINGER - GOLD PLATE PER ASTM B488  
 CRIMP SLEEVE - SULFAMATE NICKEL PER MIL-P-27418  
 ALL OTHER METAL PARTS - ALBALOY PLATE PER DELTA SPEC. 111197

|             |   |                |                         |             |   |
|-------------|---|----------------|-------------------------|-------------|---|
| MATL:       | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS ARE IN INCHES<br>MACHINED SURFACES FINISH 63 RMS MAX.<br>REMOVE ALL BURRS .004 MAX. BREAK<br>MACHINE CORNERS .005 MAX. FILLET R.<br>TOLERANCES ON DECIMALS<br>.XX $\pm .01$ .XXX $\pm .005$<br>ANGLES $\pm 1^\circ$ FRACTIONS $\pm 1/64$ | DFTM. N. N. N  | TIMES MICROWAVE SYSTEMS |             |   |
|             |   | DATE 9/4/13    | EZ-240-QM-RA-X          |             |   |
| USED ON: B  |   | CHKD. J. D. B. | CONNECTOR ASSEMBLY      |             |   |
|             |   | DATE 9/10/13   | 90° QMAM for LMR-240    |             |   |
| SCALE: NONE | DWG. SIZE A   | APPD. J. D. B. |                         |             |   |
|             |   | DATE 9/10/13   | 1 of 1                  | SD3190-2895 | A |



## I. MATERIALS & FINISHES

## II. ELECTRICAL PROPERTIES

| Components | Materials | Finishes | Thk. ( $\mu$ " ) |
|------------|-----------|----------|------------------|
|------------|-----------|----------|------------------|

| Impedance ( $\Omega$ ): | 50 |
|-------------------------|----|
|-------------------------|----|

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](#)

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.

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

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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.

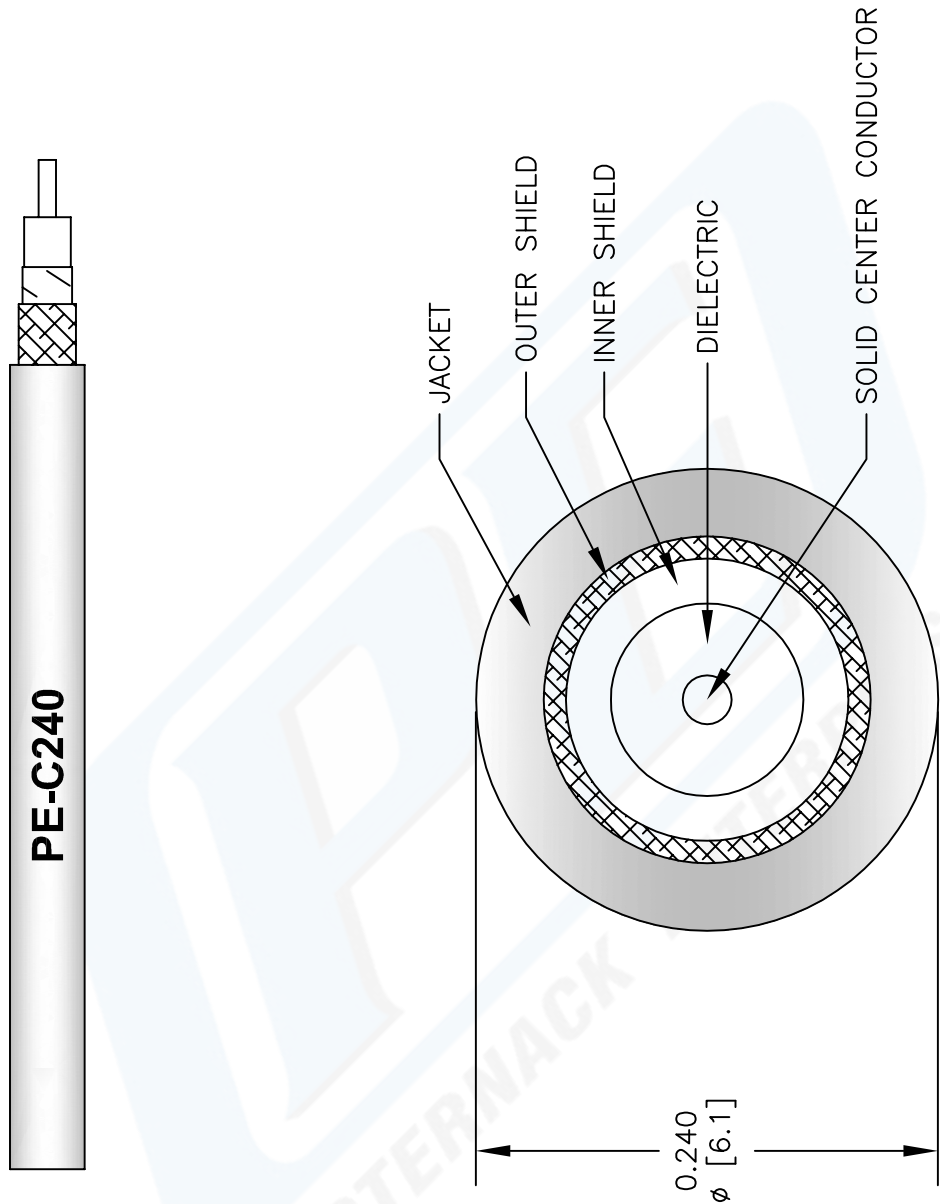
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URL: <http://www.pasternack.com/flexible-0.240-50-ohm-coax-cable-pe-jacket-pe-c240-p.aspx>

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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 | 147 |
|----------|--------|-------|-----|------|---|-----|

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