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

**Technical Data Sheet**

<table>
<thead>
<tr>
<th>Configuration</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable Design</strong></td>
<td>Low Loss</td>
</tr>
<tr>
<td><strong>Inner Conductor Material and Plating</strong></td>
<td>Copper</td>
</tr>
<tr>
<td><strong>Dielectric Type</strong></td>
<td>PE (F)</td>
</tr>
<tr>
<td><strong>Shield Materials</strong></td>
<td>Aluminum Tape, Tinned Copper Braid</td>
</tr>
<tr>
<td><strong>Jacket Material and Color</strong></td>
<td>PE, Black</td>
</tr>
</tbody>
</table>

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impedance, Ohms</td>
<td>50</td>
</tr>
<tr>
<td>Velocity of Propagation, %</td>
<td>84</td>
</tr>
<tr>
<td>Maximum Operating Frequency, GHz</td>
<td>5.8</td>
</tr>
<tr>
<td>RF Shielding, dB</td>
<td>90</td>
</tr>
<tr>
<td>Capacitance, pF/ft [pF/m]</td>
<td>24.2 [79.4]</td>
</tr>
</tbody>
</table>

**Electrical Specifications by Frequency**

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Frequency, MHz</th>
<th>Attenuation, dB/100ft [dB/100m]</th>
<th>Power Handling, Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency 1</strong></td>
<td>150</td>
<td>3.4 [11.15]</td>
<td>660</td>
</tr>
<tr>
<td><strong>Frequency 2</strong></td>
<td>450</td>
<td>5.95 [19.52]</td>
<td>380</td>
</tr>
<tr>
<td><strong>Frequency 3</strong></td>
<td>900</td>
<td>8.58 [28.15]</td>
<td>260</td>
</tr>
<tr>
<td><strong>Frequency 4</strong></td>
<td>1.5</td>
<td>11.18 [36.68]</td>
<td>200</td>
</tr>
<tr>
<td><strong>Frequency 5</strong></td>
<td>2</td>
<td>13 [42.65]</td>
<td>170</td>
</tr>
</tbody>
</table>

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.
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Double Shielded with Black PE Jacket

### TECHNICAL DATA SHEET

#### 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 for current document)
- **RoHS Compliant**: Yes

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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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NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

PE-C240 CAD Drawing

Φ [6.1] 0.240