



## Low Loss Flexible .500 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket

### TECHNICAL DATA SHEET

PE-C500

Low Loss Flexible .500 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket

#### Configuration

|                                      |                                    |
|--------------------------------------|------------------------------------|
| Cable Design                         | Low Loss                           |
| Inner Conductor Material and Plating | Copper Clad Aluminum               |
| 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, %       | 86           |
| Maximum Operating Frequency, GHz | 6            |
| RF Shielding, dB                 | 90           |
| Capacitance, pF/ft [pF/m]        | 23.6 [77.43] |
| Maximum Operating Voltage, Volts | 3,000        |

#### Electrical Specifications by Frequency

##### Frequency 1

|                                 |           |
|---------------------------------|-----------|
| Frequency, MHz                  | 50        |
| Attenuation, dB/100ft [dB/100m] | 0.7 [2.3] |
| Power Handling, KWatts          | 3.4       |

##### Frequency 2

|                                 |            |
|---------------------------------|------------|
| Frequency, MHz                  | 150        |
| Attenuation, dB/100ft [dB/100m] | 1.2 [3.94] |
| Power Handling, KWatts          | 1.9        |

##### Frequency 3

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 1.5         |
| Attenuation, dB/100ft [dB/100m] | 4.1 [13.45] |
| Power Handling, Watts           | 570         |

##### Frequency 4

|                                 |             |
|---------------------------------|-------------|
| Frequency, GHz                  | 2.5         |
| Attenuation, dB/100ft [dB/100m] | 5.5 [18.04] |
| Power Handling, Watts           | 430         |

#### Mechanical Specifications

##### Temperature

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

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 .500 inch Foam Dielectric Type Coax Cable Double Shielded with Black PE Jacket PE-C500](#)

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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**Inner Conductor**

|                   |                      |
|-------------------|----------------------|
| Number of Strands | 1                    |
| Material          | Copper Clad Aluminum |
| Diameter, in [mm] | 0.142 [3.61]         |

**Dielectric:**

|                   |            |
|-------------------|------------|
| Type              | PE (F)     |
| Diameter, in [mm] | 0.37 [9.4] |

**Shield:**

|            |                     |
|------------|---------------------|
| Number of  | 2                   |
| Material 1 | Aluminum Tape       |
| Material 2 | Tinned Copper Braid |

**Jacket:**

|                       |             |
|-----------------------|-------------|
| Material              | PE          |
| Diameter, in [mm]     | 0.5 [12.7]  |
| Color                 | Black       |
| Weight, lbs/ft [Kg/m] | 0.11 [0.16] |

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

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

**Plotted and Other Data**

|        |                            |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

Low Loss Flexible .500 inch Foam Dielectric 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.

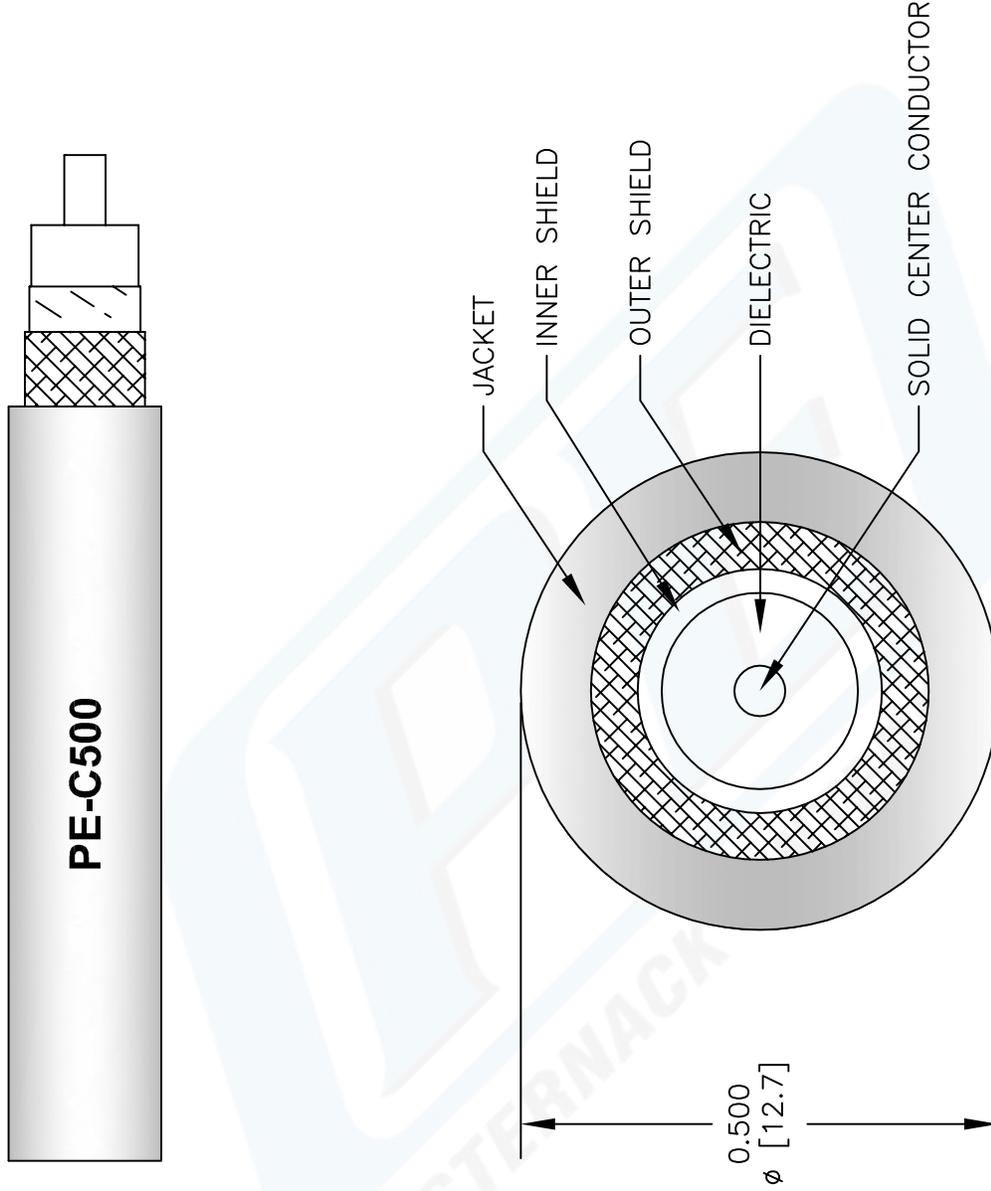
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URL: <http://www.pasternack.com/flexible-0.500-50-ohm-coax-cable-pe-jacket-pe-c500-p.aspx>

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# PE-C500 CAD Drawing

Low Loss Flexible .500 inch Foam Dielectric 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      |  | CAD FILE |  | SCALE |  | SIZE |  |
| PE-C500        |  | 040113-A |  | N/A   |  | A    |  |
| FSCM NO. 53919 |  |          |  |       |  | 127  |  |

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