



2.92mm Male to 1.85mm Male Precision  
Cable Using PE-P086 Coax, RoHS

TECHNICAL DATA SHEET

PE3C0750

**Configuration**

|             |             |
|-------------|-------------|
| Connector 1 | 2.92mm Male |
| Connector 2 | 1.85mm Male |
| Cable Type  | PE-P086     |

**Electrical Specifications**

|                         |              |
|-------------------------|--------------|
| Frequency Range         | DC to 40 GHz |
| Impedance               | 50 Ohms      |
| Maximum VSWR            | 1.4:1        |
| Velocity of Propagation | 69.5 %       |
| RF Shielding            | 110 dB       |

**Typical Performance by Frequency**

**Frequency 1**

|                 |                       |
|-----------------|-----------------------|
| Frequency       | 2.5 GHz               |
| VSWR            | 1.3:1                 |
| Insertion Loss, | 0.5 dB/ft [1.51 dB/m] |

**Frequency 2**

|                |                      |
|----------------|----------------------|
| Frequency      | 5 GHz                |
| VSWR           | 1.3:1                |
| Insertion Loss | 0.7 dB/ft [2.3 dB/m] |

**Frequency 3**

|                |                     |
|----------------|---------------------|
| Frequency      | 10 GHz              |
| VSWR           | 1.3:1               |
| Insertion Loss | 1 dB/ft [3.28 dB/m] |

**Frequency 4**

|                |                       |
|----------------|-----------------------|
| Frequency      | 20 GHz                |
| VSWR           | 1.3:1                 |
| Insertion Loss | 1.3 dB/ft [4.27 dB/m] |

**Frequency 5**

|                |                       |
|----------------|-----------------------|
| Frequency      | 40 GHz                |
| VSWR           | 1.4:1                 |
| Insertion Loss | 1.9 dB/ft [6.23 dB/m] |

Electrical Specification Notes:

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

**Mechanical Specifications**

**Temperature**

|                             |                   |
|-----------------------------|-------------------|
| Temperature Operating Range | -55 to +200 deg C |
|-----------------------------|-------------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to 1.85mm Male Precision Cable Using PE-P086 Coax, RoHS PE3C0750](#)



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**Size**

|                              |                    |
|------------------------------|--------------------|
| Diameter                     | 0.375 in [9.53 mm] |
| Cable Color                  | Blue               |
| One Time Minimum Bend Radius | 0.4 in [10.16 mm]  |
| Repeated Minimum Bend Radius | 1.57 in [39.88 mm] |

**Cable**

|                       |                           |
|-----------------------|---------------------------|
| Cable Type            | PE-P086                   |
| Inner Conductor Type  | Solid                     |
| Cable Inner Conductor | Copper Clad Steel, Silver |
| No of Shields         | 2                         |
| Dielectric Type       | PTFE                      |
| Jacket Material       | FEP                       |
| Jacket Diameter       | 0.1 in [2.54 mm]          |

**Connector 1**

|                                      |                            |
|--------------------------------------|----------------------------|
| Type                                 | 2.92mm Male                |
| Configuration                        | Straight                   |
| Inner Conductor Material and Plating | Beryllium Copper, Gold     |
| Coupling Nut Material and Plating    | Passivated Stainless Steel |
| Hex Size                             | 5/16 in.                   |
| Torque                               | 8 in-lbs [0.9 Nm]          |
| Body Material and Plating            | Passivated Stainless Steel |
| Dielectric Type                      | Noryl                      |

**Connector 2**

|                                      |                            |
|--------------------------------------|----------------------------|
| Type                                 | 1.85mm Male                |
| Configuration                        | Straight                   |
| Inner Conductor Material and Plating | Beryllium Copper, Gold     |
| Coupling Nut Material and Plating    | Passivated Stainless Steel |
| Hex Size                             | 5/16 in.                   |
| Torque                               | 8 in-lbs [0.9 Nm]          |
| Body Material and Plating            | Passivated Stainless Steel |
| Dielectric Type                      | Noryl                      |

**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: [2.92mm Male to 1.85mm Male Precision Cable Using PE-P086 Coax, RoHS PE3C0750](#)



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Notes:

- Values at +25 °C, sea level

2.92mm Male to 1.85mm Male Precision Cable Using PE-P086 Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

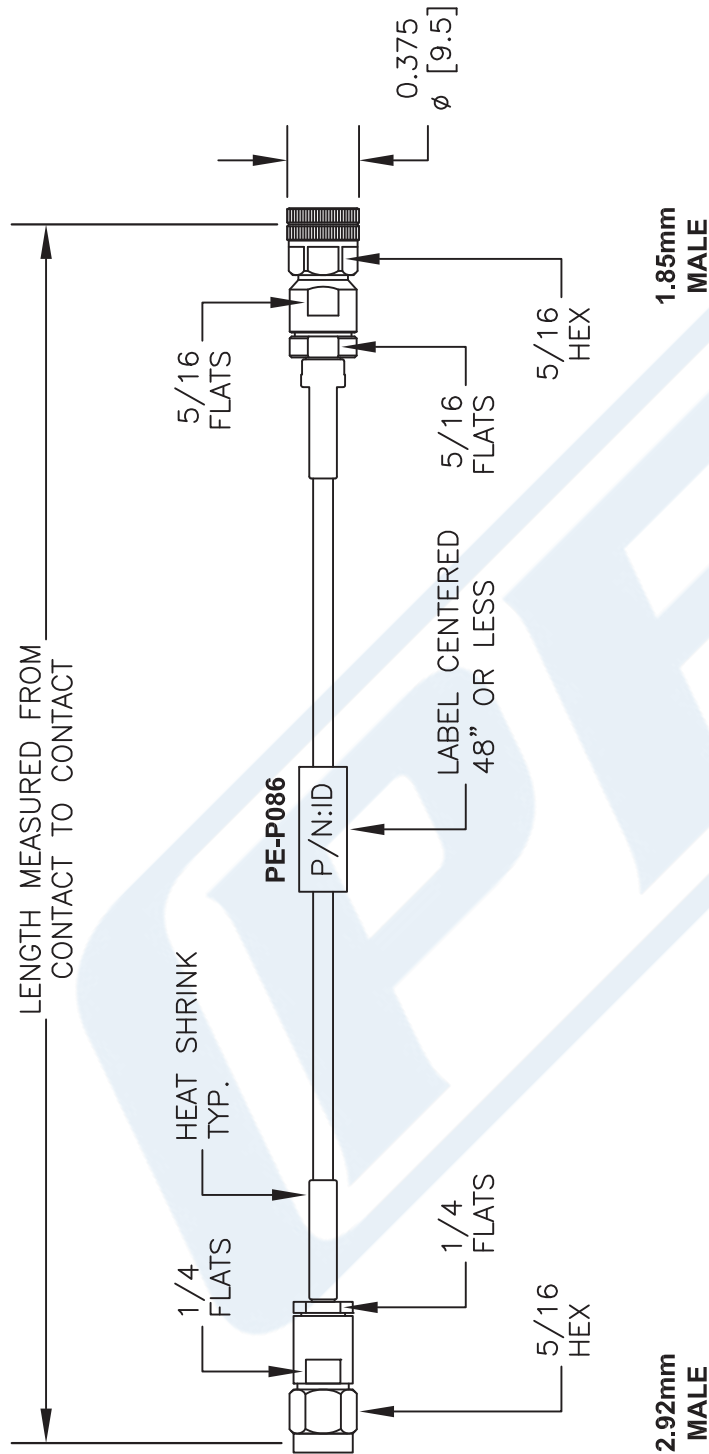
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.92mm Male to 1.85mm Male Precision Cable Using PE-P086 Coax, RoHS PE3C0750](http://www.pasternack.com/2.92mm-male-1.85mm-male-pe-p086-cable-assembly-pe3c0750-p.aspx)

URL: <http://www.pasternack.com/2.92mm-male-1.85mm-male-pe-p086-cable-assembly-pe3c0750-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.

# PE3C0750 CAD Drawing

2.92mm Male to 1.85mm Male Precision Cable Using PE-P086 Coax, RoHS



| How To Order                                                                                                                                                                                                                                                                                                                                                                                 |  | Part # Ext.                                                                                                         | Length In Inches | Part # Ext. | Length In Centimeters |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------|------------------|-------------|-----------------------|
| <div>Part Number Configuration</div> <div>PE3 <input type="text" value="zzz"/> <input type="text" value="yy"/> - <input type="text" value="xx"/> <input type="text" value="uu"/></div> <div>00 - 99999</div> <div>LF = RoHS Compliant<br/>&lt; Blank &gt; = Standard</div> <div>Note: LF applies only to RF cables</div> <div>CM = Centimeters<br/>&lt; Blank &gt; = Inches<br/>Length</div> |  | <div>Examples</div> <div>PE3000LF-100</div> <div>PE3000-100</div> <div>PE3000LF-100CM</div> <div>PE3000-100CM</div> |                  |             |                       |
|                                                                                                                                                                                                                                                                                                                                                                                              |  | -12                                                                                                                 | 12"              | -25CM       | 25Cm                  |
|                                                                                                                                                                                                                                                                                                                                                                                              |  | -24                                                                                                                 | 24"              | -50CM       | 50Cm                  |
|                                                                                                                                                                                                                                                                                                                                                                                              |  | -36                                                                                                                 | 36"              | -75CM       | 75Cm                  |
|                                                                                                                                                                                                                                                                                                                                                                                              |  | -48                                                                                                                 | 48"              | -100CM      | 100Cm                 |
|                                                                                                                                                                                                                                                                                                                                                                                              |  | -60                                                                                                                 | 60"              | -125CM      | 125Cm                 |
|                                                                                                                                                                                                                                                                                                                                                                                              |  | -xx                                                                                                                 | Custom Length    | -xxCM       | Custom Length         |

**PE PASTERNAK®**  
 THE ENGINEER'S RF SOURCE  
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DWG TITLE  
**PE3C0750**  
 FSCM NO. 53919  
 CAD FILE 031214  
 SCALE N/A  
 SIZE A 2233

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].  
 4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR  $3/8"$ , WHICHEVER IS GREATER.