



TNC Male Right Angle to TNC Male Right Angle Cable  
200 cm Length Using LMR-240 Coax with 90 Deg. Clock

**RF Cable Assemblies Technical Data Sheet**

**PE3C2805/PH90-200CM**

**Configuration**

- Connector 1: TNC Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: LMR-240

**Features**

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

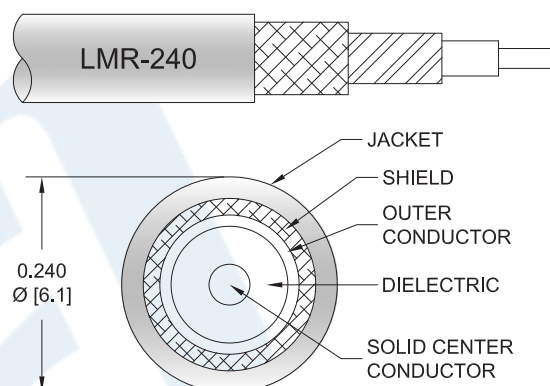
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C2805/PH90-200CM TNC male right angle to TNC male right angle 200 cm cable using LMR-240 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240 coax. The PE3C2805/PH90-200CM TNC male to TNC male cable assembly operates to 4 GHz. The right angle TNC interfaces on the LMR-240 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male Right Angle to TNC Male Right Angle Cable 200 cm Length Using LMR-240 Coax with 90 Deg. Clock PE3C2805/PH90-200CM](#)



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### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 4       | GHz             |
| VSWR                          |         |              | 1.45:1  |                 |
| Velocity of Propagation       |         | 84           |         | %               |
| RF Shielding                  | 90      |              |         | dB              |
| Group Delay                   |         | 1.21 [3.97]  |         | ns/ft [ns/m]    |
| Capacitance                   |         | 24.2 [79.4]  |         | pF/ft [pF/m]    |
| Inductance                    |         | 0.06 [0.2]   |         | uH/ft [uH/m]    |
| DC Resistance Inner Conductor |         | 3.2 [10.5]   |         | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor |         | 3.89 [12.76] |         | Ω/1000ft [Ω/Km] |
| Jacket Spark                  |         |              | 5,000   | Vrms            |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 4    | GHz   |
| Insertion Loss (Max.) | 0.52 | 0.55 | 0.61 | 0.71 | 1.38 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 78.74 in [200 cm]  |
| Diameter | 0.59 in [14.99 mm] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LMR-240             |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper              |
| Dielectric Type                      | PE (F)              |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |
| Jacket Material                      | PE, Black           |
| Jacket Diameter                      | 0.24 in [6.1 mm]    |

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|                              |                        |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 0.75 in [19.05 mm]     |
| Repeated Minimum Bend Radius | 2.5 in [63.5 mm]       |
| Bending Moment               | 0.25 lbs-ft [0.34 N-m] |
| Flat Plate Crush             | 20 lbs/in [0.36 Kg/mm] |
| Tensile Strength             | 80 lbs [36.29 Kg]      |

### Connectors

| Description                       | Connector 1          | Connector 2          |
|-----------------------------------|----------------------|----------------------|
| Type                              | TNC Male Right Angle | TNC Male Right Angle |
| Impedance                         | 50 Ohms              | 50 Ohms              |
| Contact Material and Plating      | Brass, Gold          | Brass, Gold          |
| Dielectric Type                   | PTFE                 | PTFE                 |
| Body Material and Plating         | Brass, Nickel        | Brass, Nickel        |
| Coupling Nut Material and Plating | Brass, Nickel        | Brass, Nickel        |

### Environmental Specifications

#### Temperature

Operating Range -40 to +85 deg C

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

### Plotted and Other Data

Notes:

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**PE3C2805/PH90-200CM**

### How to Order

Part Number Configuration:

**PE3C2805/PH90**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C2805/PH90-12 = 12 inches long cable  
PE3C2805/PH90-100cm = 100 cm long cable

TNC Male Right Angle to TNC Male Right Angle Cable 200 cm Length Using LMR-240 Coax with 90 Deg. Clock 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.

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URL:

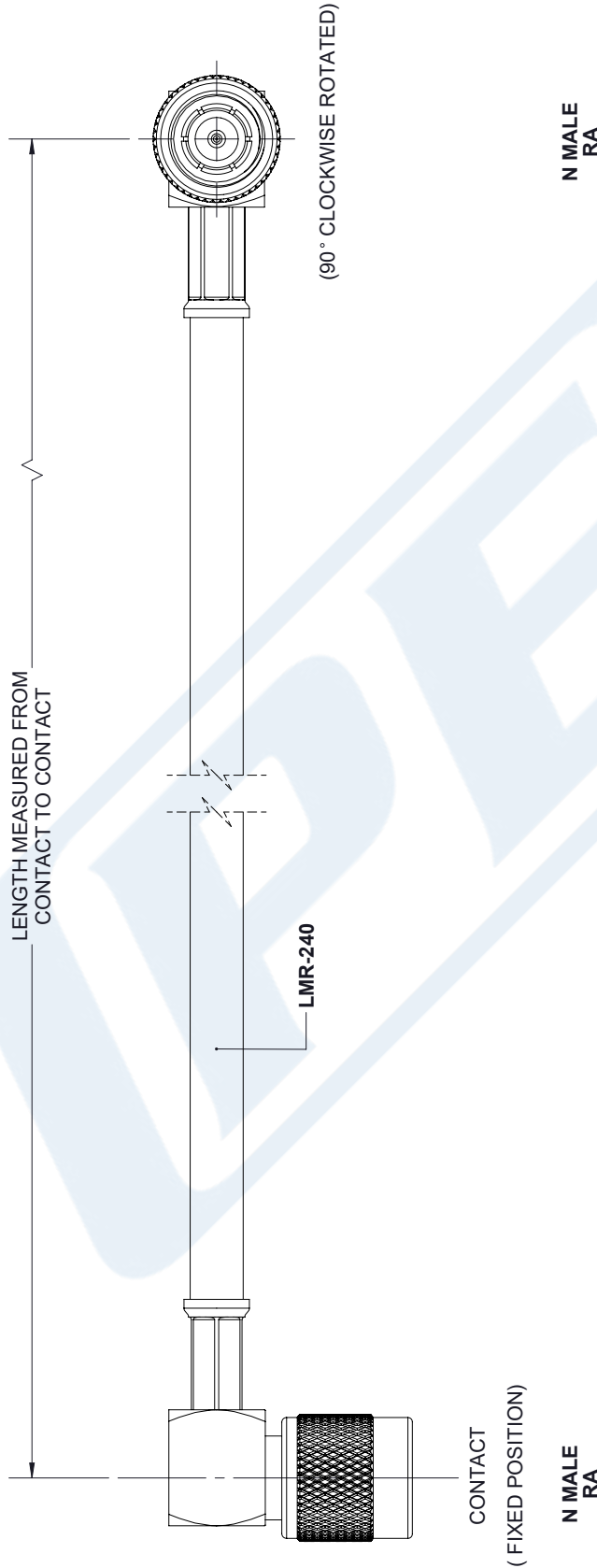
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE3C2805/PH90-200CM CAD Drawing

TNC Male Right Angle to TNC Male Right Angle Cable 200 cm

Length Using LMR-240 Coax with 90 Deg. Clock

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 8/20/2020 | SELLIS   |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                                                                                        |         |           |        |             |         |        |      |               |         |                              |  |                                                                                                                                                                                                                                 |  |  |  |                                                                                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------|---------|-----------|--------|-------------|---------|--------|------|---------------|---------|------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>UNLESS OTHERWISE SPECIFIED<br/>LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ± .2</td> <td>[ .08 ]</td> <td>FRACTIONS</td> <td>± 1/32</td> </tr> <tr> <td>.XX = ± .02</td> <td>[ .51 ]</td> <td>ANGLES</td> <td>± 1°</td> </tr> <tr> <td>.XXX = ± .005</td> <td>[ .13 ]</td> <td>CABLE LENGTH (L) TOLERANCES:</td> <td></td> </tr> <tr> <td colspan="4"> <math>L \leq 12</math> [305] = +1 [25] / -0<br/> <math>12</math> [305] &lt; <math>L \leq 60</math> [1524] = +2 [51] / -0<br/> <math>60</math> [1524] &lt; <math>L \leq 120</math> [3048] = +4 [102] / -0<br/> <math>120</math> [3048] &lt; <math>L \leq 300</math> [7620] = +6 [152] / -0<br/> <math>300</math> [7620] &lt; <math>L = +5\%</math> / -0 </td> </tr> </table> <p>ALL DIMENSIONS SHOWN<br/>ARE FOR REFERENCE ONLY.</p> |         | .X = ± .2                                                                                              | [ .08 ] | FRACTIONS | ± 1/32 | .XX = ± .02 | [ .51 ] | ANGLES | ± 1° | .XXX = ± .005 | [ .13 ] | CABLE LENGTH (L) TOLERANCES: |  | $L \leq 12$ [305] = +1 [25] / -0<br>$12$ [305] < $L \leq 60$ [1524] = +2 [51] / -0<br>$60$ [1524] < $L \leq 120$ [3048] = +4 [102] / -0<br>$120$ [3048] < $L \leq 300$ [7620] = +6 [152] / -0<br>$300$ [7620] < $L = +5\%$ / -0 |  |  |  | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>PASTERNAK CORPORATION<br/>ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |  |
| .X = ± .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | [ .08 ] | FRACTIONS                                                                                              | ± 1/32  |           |        |             |         |        |      |               |         |                              |  |                                                                                                                                                                                                                                 |  |  |  |                                                                                                                                                                                                     |  |
| .XX = ± .02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | [ .51 ] | ANGLES                                                                                                 | ± 1°    |           |        |             |         |        |      |               |         |                              |  |                                                                                                                                                                                                                                 |  |  |  |                                                                                                                                                                                                     |  |
| .XXX = ± .005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [ .13 ] | CABLE LENGTH (L) TOLERANCES:                                                                           |         |           |        |             |         |        |      |               |         |                              |  |                                                                                                                                                                                                                                 |  |  |  |                                                                                                                                                                                                     |  |
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| <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>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PE3C2805/PH90</p> <p>REV A</p> |         |           |        |             |         |        |      |               |         |                              |  |                                                                                                                                                                                                                                 |  |  |  |                                                                                                                                                                                                     |  |

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