

BNC Male to BNC Male Cable 24 Inch  
Length Using LMR-200-UF Coax



**RF Cable Assemblies Technical Data Sheet**

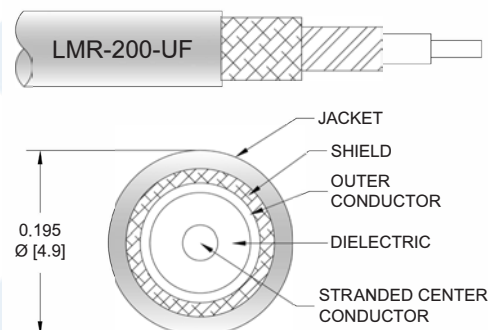
**PE3C2220-24**

**Configuration**

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: LMR-200-UF

**Features**

- Max Frequency 4 GHz
- 83% Phase Velocity
- PE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C2220-24 BNC male to BNC male 24 inch cable using LMR-200-UF 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 BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200-UF coax. The PE3C2220-24 BNC male to BNC male cable assembly operates to 4 GHz.

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: [BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax PE3C2220-24](#)



BNC Male to BNC Male Cable 24 Inch  
Length Using LMR-200-UF Coax

## RF Cable Assemblies Technical Data Sheet

**PE3C2220-24**

### Electrical Specifications

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 4       | GHz          |
| VSWR                    |         | 1.45:1       |         |              |
| Velocity of Propagation |         | 83           |         | %            |
| Capacitance             |         | 24.5 [80.38] |         | pF/ft [pF/m] |
| Jacket Spark            |         |              | 3,000   | Vrms         |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 4    | GHz   |
| Insertion Loss (Max.) | 0.27 | 0.32 | 0.37 | 0.45 | 0.71 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

### Mechanical Specifications

#### Cable Assembly

|         |                   |
|---------|-------------------|
| Length* | 24 in [609.6 mm]  |
| Weight  | 0.11 lbs [49.9 g] |

#### Cable

|                              |                        |
|------------------------------|------------------------|
| Cable Type                   | LMR-200-UF             |
| Impedance                    | 50 Ohms                |
| Inner Conductor Type         | Solid                  |
| Dielectric Type              | PE (F)                 |
| Number of Shields            | 1                      |
| Shield Layer 1               | Tinned Copper          |
| Shield Layer 2               | Aluminum Tape          |
| Jacket Material              | PE, Black              |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius | 2 in [50.8 mm]         |
| Flat Plate Crush             | 10 lbs/in [0.18 Kg/mm] |
| Tensile Strength             | 40 lbs [18.14 Kg]      |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax PE3C2220-24](#)



BNC Male to BNC Male Cable 24 Inch  
Length Using LMR-200-UF Coax

## RF Cable Assemblies Technical Data Sheet

**PE3C2220-24**

### Connectors

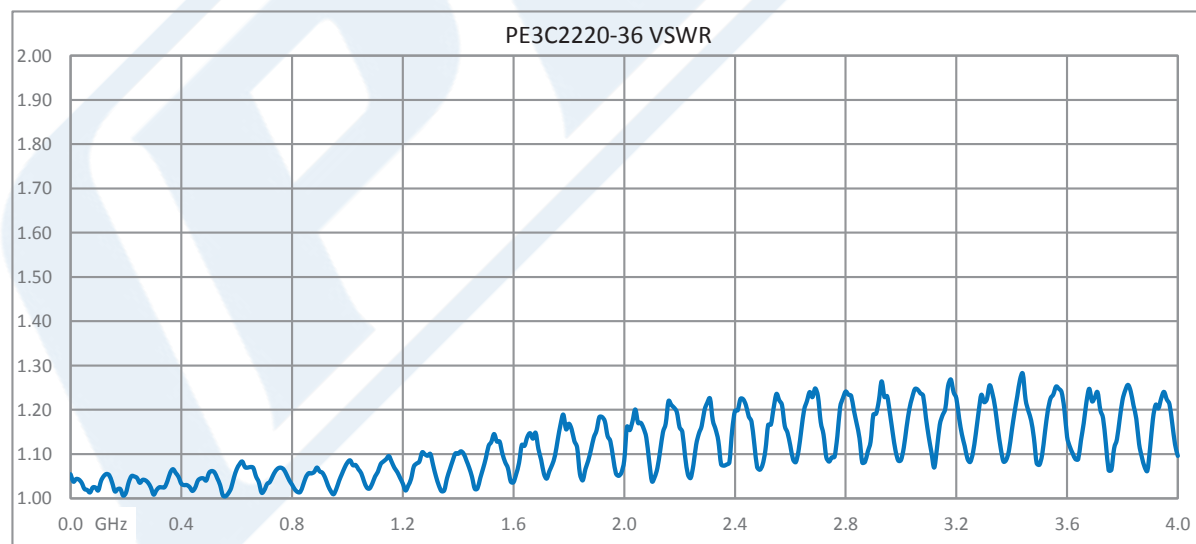
| Description                       | Connector 1      | Connector 2      |
|-----------------------------------|------------------|------------------|
| Type                              | BNC Male         | BNC Male         |
| Specification                     | MIL-STD-348      | MIL-STD-348      |
| Impedance                         | 50 Ohms          | 50 Ohms          |
| Contact Material and Plating      | Brass, Gold      | Brass, Gold      |
| Dielectric Type                   | PTFE             | PTFE             |
| Body Material and Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |

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

### Plotted and Other Data

Notes:

### Typical Performance Data



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax PE3C2220-24](#)



## BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C2220-24**

#### How to Order

Part Number Configuration:

**PE3C2220**

**- xx**

**uu**

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

Example: PE3C2220-12 = 12 inches long cable  
PE3C2220-100cm = 100 cm long cable

BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax PE3C2220-24](https://www.pasternack.com/bnc-male-bnc-male-lmr200uf-cable-assembly-pe3c2220-24-p.aspx)

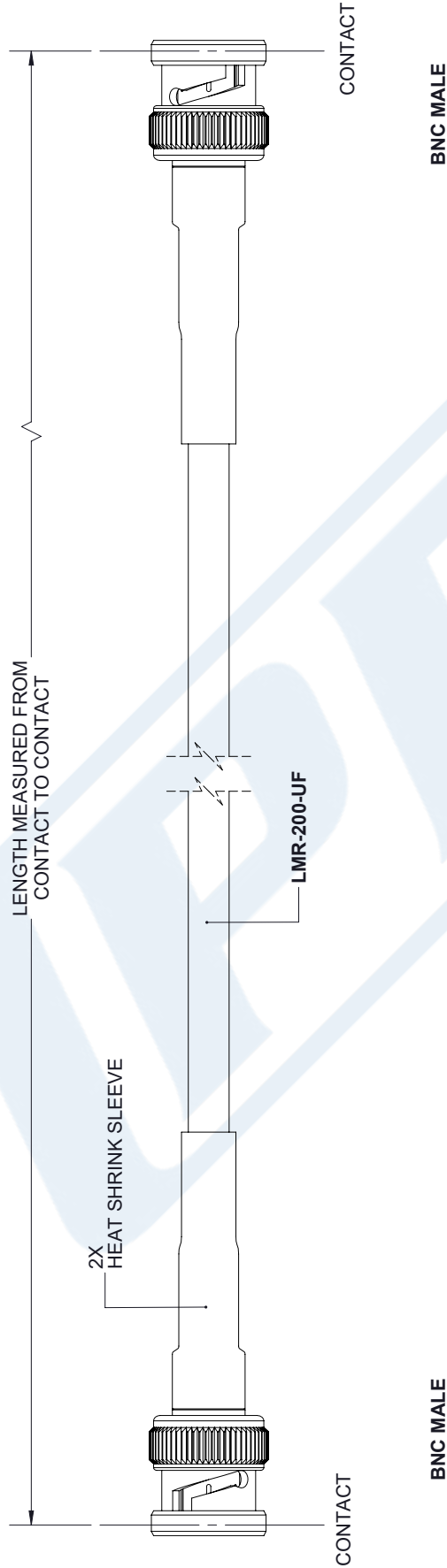
URL: <https://www.pasternack.com/bnc-male-bnc-male-lmr200uf-cable-assembly-pe3c2220-24-p.aspx>

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.

# PE3C2220-24 CAD Drawing

BNC Male to BNC Male Cable 24 Inch Length Using LMR-200-UF Coax

| REVISIONS |              |           |          |
|-----------|--------------|-----------|----------|
| REV.      | DESCRIPTION  | DATE      | APPROVED |
| A         | PCR PE3C2220 | 7/24/2020 | S.ELLIS  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |             |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------|-----------|-------------|-------|--------|---------------|-------|-------------|--------------|----------------|--------------------------|----------------|----------------------------|-----------------|-----------------------------|-----------------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <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> </tr> <tr> <td>.XX = ± .02</td> <td>[.51]</td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ± .005</td> <td>[.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12 [305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>= +5% L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN<br/>ARE FOR REFERENCE ONLY.</p> |                 | .X = ± .2   | [.08]    | FRACTIONS | .XX = ± .02 | [.51] | ± 1/32 | .XXX = ± .005 | [.13] | ANGLES ± 1° | L ≤ 12 [305] | = +1 [25] / -0 | 12 [305] < L ≤ 60 [1524] | = +2 [51] / -0 | 60 [1524] < L ≤ 120 [3048] | = +4 [102] / -0 | 120 [3048] < L ≤ 300 [7620] | = +6 [152] / -0 | 300 [7620] < L | = +5% L / -0 | <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> |  |
| .X = ± .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [.08]           | FRACTIONS   |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| .XX = ± .02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | [.51]           | ± 1/32      |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| .XXX = ± .005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [.13]           | ANGLES ± 1° |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| L ≤ 12 [305]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | = +1 [25] / -0  |             |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| 12 [305] < L ≤ 60 [1524]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | = +2 [51] / -0  |             |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| 60 [1524] < L ≤ 120 [3048]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | = +4 [102] / -0 |             |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| 120 [3048] < L ≤ 300 [7620]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | = +6 [152] / -0 |             |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| 300 [7620] < L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | = +5% L / -0    |             |          |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CAGE CODE       | DRAWN BY    | ITEM NO. |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 53919           | K.DANG      | PE3C2220 |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |
| REV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |             | A        |           |             |       |        |               |       |             |              |                |                          |                |                            |                 |                             |                 |                |              |                                                                                                                                                                                                                                                                 |  |

THIRD-ANGLE PROJECTION

THE INFORMATION AND  
DESIGN IN THIS DOCUMENT  
IS THE PROPERTY OF  
PASTERNAK CORPORATION  
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.