

## N Male to TNC Male Low Loss Cable 24 Inch Length Using LMR-240-UF Coax With Times Microwave Components with HeatShrink



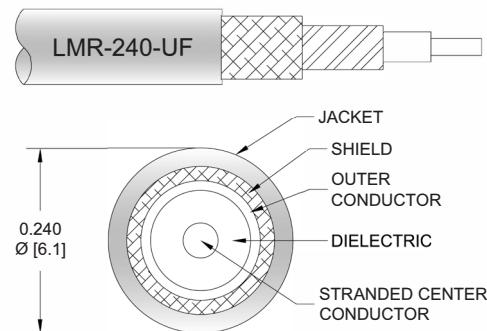
### PE3C2211/HS-24

#### Configuration

- Connector 1: N Male
- Connector 2: TNC Male
- Cable Type: LMR-240-UF
- Coax Flex Type: Flexible

#### Features

- Max Frequency 8 GHz
- 84% Phase Velocity
- Double Shielded
- PE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C2211/HS-24 type N male to TNC male 24 inch cable using LMR-240-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 type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3C2211/HS-24 type N male to TNC male cable assembly operates to 8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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.

#### Electrical Specifications

| Description             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 8       | GHz          |
| VSWR                    |         |             | 1.4:1   |              |
| Velocity of Propagation |         | 84          |         | %            |
| Capacitance             |         | 24.2 [79.4] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2  | F3   | F4   | F5   | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency             | 0.5  | 1   | 2    | 4    | 8    | GHz   |
| Insertion Loss (Typ.) | 0.31 | 0.4 | 0.52 | 0.61 | 0.88 | dB    |

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### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of  $0.1 * \text{sqrt}(f\text{ghz})$  for the N male connector and 0.1 dB for the TNC male connector.

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Length         | 24 in [609.6 mm]    |
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.203 lbs [92.08 g] |

#### Cable

|                              |                    |
|------------------------------|--------------------|
| Cable Type                   | LMR-240-UF         |
| Impedance                    | 50 Ohms            |
| Inner Conductor Type         | Solid              |
| Dielectric Type              | PE (F)             |
| Number of Shields            | 2                  |
| Shield Layer 1               | Tinned Copper      |
| Shield Layer 2               | Aluminum Tape      |
| Jacket Material              | PE, Black          |
| One Time Minimum Bend Radius | 0.75 in [19.05 mm] |
| Repeated Minimum Bend Radius | 2.5 in [63.5 mm]   |

### Connectors

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

### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

### Compliance Certifications

(see product page for current document)

### Plotted and Other Data

Notes:

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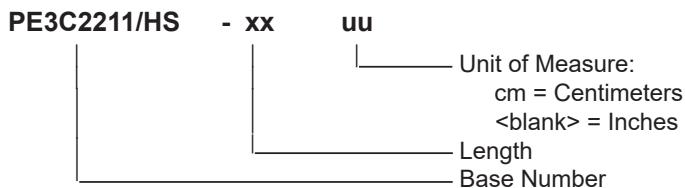


## PE3C2211/HS-24

### Typical Performance Data

### How to Order

Part Number Configuration:



Example: PE3C2211/HS-12 = 12 inches long cable  
PE3C2211/HS-100cm = 100 cm long cable

N Male to TNC Male Low Loss Cable 24 Inch Length Using LMR-240-UF Coax With Times Microwave Components with HeatShrink 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: [N Male to TNC Male Low Loss Cable 24 Inch Length Using LMR-240-UF Coax With Times Microwave Components with HeatShrink PE3C2211/HS-24](#)

URL: <https://www.pasternack.com/n-male-to-tnc-male-low-loss-cable-24-inch-length-using-lmr-240-uf-with-heatshrink-pe3c2211-hs-24-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE3C2211/HS-24 CAD Drawing

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