

7/16 DIN Male to N Female Low PIM Cable  
150 CM Length Using TFT-5G-402 Coax Using  
Times Microwave Components



**PE3C8321-150CM**

**Configuration**

- Connector 1: 7/16 DIN Male
- Connector 2: N Female
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

**Features**

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

**Description**

Pasternack's PE3C8321-150CM 7/16 DIN male to type N female 150 cm cable using TFT-5G-402 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 7/16 DIN to type N cable assembly has a male to female gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8321-150CM 7/16 DIN male to type N female cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 80 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.

**Electrical Specifications**

| Description                                | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range                            | DC      |         | 5.8     | GHz   |
| VSWR                                       |         |         | 1.4:1   |       |
| Velocity of Propagation                    |         | 76      |         | %     |
| RF Shielding                               | 80      |         |         | dB    |
| Passive Intermodulation                    |         |         | -160    | dBc   |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz |         |         |         |       |

7/16 DIN Male to N Female Low PIM Cable  
150 CM Length Using TFT-5G-402 Coax Using  
Times Microwave Components



## PE3C8321-150CM

### Electrical Specifications

| Description | Minimum | Typical     | Maximum | Units        |
|-------------|---------|-------------|---------|--------------|
| Capacitance |         | 26.7 [87.6] |         | pF/ft [pF/m] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 5.8  | GHz   |
| Insertion Loss (Typ.) | 0.49 | 0.61 | 0.78 | 1.14 | 1.66 | dB    |

**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 dB per connector.

### Mechanical Specifications

**Cable Assembly**

Width/Diameter 1.25 in [31.75 mm]

**Cable**

Cable Type TFT-5G-402  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper  
 Dielectric Type PTFE  
 Number of Shields 2  
 Jacket Material FEP, Blue  
 Jacket Diameter 0.16 in [4.06 mm]  
 One Time Minimum Bend Radius 0.75 in [19.05 mm]

7/16 DIN Male to N Female Low PIM Cable  
150 CM Length Using TFT-5G-402 Coax Using  
Times Microwave Components



## PE3C8321-150CM

### Connectors

| Description                           | Connector 1            | Connector 2             |
|---------------------------------------|------------------------|-------------------------|
| Type                                  | 7/16 DIN Male          | N Female                |
| Impedance                             | 50 Ohms                | 50 Ohms                 |
| Configuration                         | Straight               | Straight                |
| Mating Cycles                         |                        | 500                     |
| Contact Material and Plating          | Brass, Silver          | Phosphor Bronze, Silver |
| Contact Plating Specification         | 5 µm                   | 5 µm                    |
| Dielectric Type                       | PTFE                   | PTFE                    |
| Outer Conductor Material and Plating  |                        | Brass, Tri-Metal        |
| Outer Conductor Plating Specification |                        | 3 µm                    |
| Body Material and Plating             | Brass, Tri-Metal       | Brass, Tri-Metal        |
| Body Plating Specification            | 3 µm                   | 3 µm                    |
| Coupling Nut Material and Plating     | Brass, Tri-Metal       |                         |
| Coupling Nut Plating Specification    | 3 µm                   |                         |
| Torque                                | 22.083 ft-lbs 29.95 Nm | 10 in-lbs 1.13 Nm       |

### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

### Plotted and Other Data

Notes:

7/16 DIN Male to N Female Low PIM Cable  
150 CM Length Using TFT-5G-402 Coax Using  
Times Microwave Components



## PE3C8321-150CM

### Typical Performance Data

### How to Order

Part Number Configuration:

**PE3C8321**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C8321-12 = 12 inches long cable  
PE3C8321-100cm = 100 cm long cable

7/16 DIN Male to N Female Low PIM Cable 150 CM Length Using TFT-5G-402 Coax Using Times Microwave Components 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: [7/16 DIN Male to N Female Low PIM Cable 150 CM Length Using TFT-5G-402 Coax Using Times Microwave Components PE3C8321-150CM](https://www.pasternack.com/7-16-din-male-to-n-female-low-pim-cable-150-cm-length-using-tft-5g-402-pe3c8321-150cm.html)

URL: <https://www.pasternack.com/7-16-din-male-to-n-female-low-pim-cable-150-cm-length-using-tft-5g-402-pe3c8321-150cm.html>

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 impliment 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.

# PE3C8321-150CM CAD Drawing

7/16 DIN Male to N Female Low PIM Cable 150 CM Length Using TFT-5G-402 Coax Using Times Microwave Components

