

## 7/16 DIN Male to HN Male Cable Using RG214 Coax



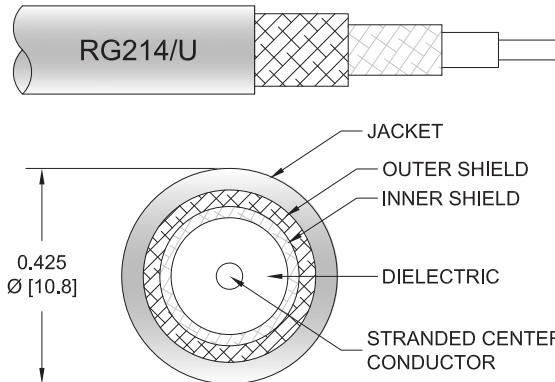
### PE33702

#### Configuration

- Connector 1: 7/16 DIN Male
- Connector 2: HN Male
- Cable Type: RG214
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE33702 7/16 DIN male to HN male cable using RG214 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 HN cable assembly has a male to male gender configuration with 50 ohm flexible RG214 coax. The PE33702 7/16 DIN male to HN male cable assembly operates to 3 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      |               | 3       | GHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 1,500   | Vrms         |

#### Specifications by Frequency

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| Part Number | Length                   | Description           | F1   | F2   | F3   | F4   | F5    | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|------|------|------|------|-------|-------|--------------|
|             |                          | Frequency             | 100  | 250  | 500  | 1000 | 3000  | MHz   |              |
| PE33702     | Custom Lengths Available | Insertion Loss (Typ.) | 0.02 | 0.03 | 0.05 | 0.08 | 0.141 | dB/ft |              |
|             |                          |                       | 0.07 | 0.1  | 0.15 | 0.25 | 0.47  | dB/m  |              |
| PE33702-12  | 12 inch                  | Insertion Loss (Typ.) | 0.22 | 0.23 | 0.25 | 0.28 | 0.35  | dB    | 0.462        |
| PE33702-36  | 36 inch                  | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.34 | 0.43 | 0.63  | dB    | 0.719        |
| PE33702-48  | 48 inch                  | Insertion Loss (Typ.) | 0.28 | 0.32 | 0.38 | 0.51 | 0.77  | dB    | 0.847        |
| PE33702-72  | 72 inch                  | Insertion Loss (Typ.) | 0.32 | 0.38 | 0.47 | 0.66 | 1.05  | dB    | 1.103        |
| PE33702-108 | 108 inch                 | Insertion Loss (Typ.) | 0.38 | 0.47 | 0.61 | 0.89 | 1.47  | dB    | 1.487        |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.462 pounds

Additional Weight per Inch: 0.01067 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
Weight 0.462 lbs [209.56 g]

### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG214                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PE                         |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | PVC, Black                 |
| Jacket Diameter                      | 0.425 in [10.8 mm]         |
| Repeated Minimum Bend Radius         | 1.6 in [40.64 mm]          |

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**PE33702**

### Connectors

| Description                        | Connector 1            | Connector 2          |
|------------------------------------|------------------------|----------------------|
| Type                               | 7/16 DIN Male          | HN Male              |
| Specification                      | IEC 169-4              | MIL-STD-348A         |
| Impedance                          | 50 Ohms                | 50 Ohms              |
| Configuration                      | Straight               | Straight             |
| Contact Material and Plating       | Brass, Gold            | Brass, Gold          |
| Contact Plating Specification      | 30 $\mu$ in minimum    | 30 $\mu$ in minimum  |
| Dielectric Type                    | PTFE                   | PTFE                 |
| Body Material and Plating          | Brass, Nickel          | Brass, Nickel        |
| Body Plating Specification         | 100 $\mu$ in minimum   | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating  | Brass, Nickel          | Brass, Nickel        |
| Coupling Nut Plating Specification | 100 $\mu$ in minimum   | 100 $\mu$ in minimum |
| Hex Size                           | 32 mm                  |                      |
| Torque                             | 18.417 ft-lbs 24.97 Nm |                      |

### Environmental Specifications

Operating Range Temperature -20 to +80 deg C

### Compliance Certifications

(see [product page](#) for current document)

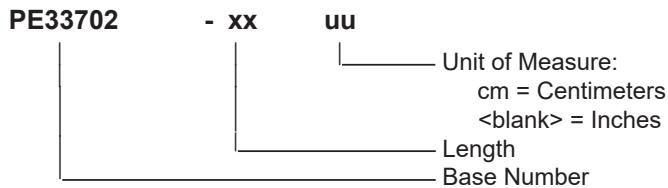
### Plotted and Other Data

Notes:

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**PE33702****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE33702-12 = 12 inches long cable  
PE33702-100cm = 100 cm long cable

7/16 DIN Male to HN Male Cable Using RG214 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: [7/16 DIN Male to HN Male Cable Using RG214 Coax PE33702](#)

URL: <https://www.pasternack.com/7-16-din-male-to-hn-male-cable-using-rg214-pe33702-p.aspx>

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# PE33702 CAD Drawing

7/16 DIN Male to HN Male Cable Using RG214 Coax

