

## N Male Right Angle to N Female Bulkhead Cable Using RG142 Coax

### PE3W15225

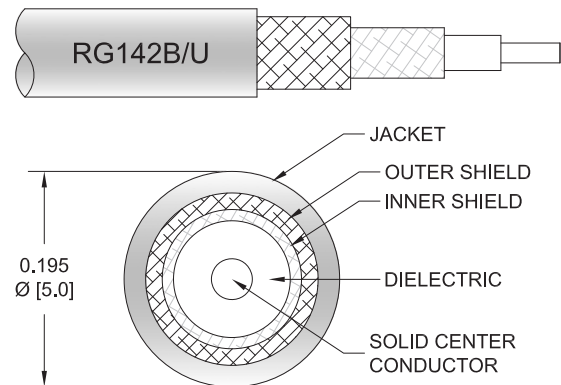


#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Female Bulkhead
- Cable Type: RG142
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W15225 type N male right angle to type N female bulkhead cable using RG142 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 type N cable assembly has a male to female gender configuration with 50 ohm flexible RG142 coax. The PE3W15225 type N male to type N female cable assembly operates to 1 GHz. The right angle type N interface on the RG142 cable allows for easier connections in tight spaces. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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      |              | 1       | GHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 1,000   | Vrms         |

#### Specifications by Frequency

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| Part Number  | Length                   | Description           | F1   | F2   | F3    | F4    | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|-------|-------|-------|--------------|
|              |                          | Frequency             | 100  | 250  | 500   | 1000  | MHz   |              |
| PE3W15225    | Custom Lengths Available | Insertion Loss (Typ.) | 0.04 | 0.06 | 0.087 | 0.129 | dB/ft |              |
|              |                          |                       | 0.13 | 0.2  | 0.29  | 0.43  | dB/m  |              |
| PE3W15225-12 | 12 inch                  | Insertion Loss (Typ.) | 0.34 | 0.36 | 0.39  | 0.43  | dB    | 0.254        |
| PE3W15225-24 | 24 inch                  | Insertion Loss (Typ.) | 0.38 | 0.42 | 0.48  | 0.56  | dB    | 0.296        |
| PE3W15225-36 | 36 inch                  | Insertion Loss (Typ.) | 0.42 | 0.48 | 0.57  | 0.69  | dB    | 0.338        |
| PE3W15225-48 | 48 inch                  | Insertion Loss (Typ.) | 0.46 | 0.54 | 0.65  | 0.82  | dB    | 0.38         |
| PE3W15225-60 | 60 inch                  | Insertion Loss (Typ.) | 0.5  | 0.6  | 0.74  | 0.95  | dB    | 0.422        |

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:    | 0.2 dB        |
| Loss due to Connector 2:    | 0.1 dB        |
| Base Weight:                | 0.254 pounds  |
| Additional Weight per Inch: | 0.0035 pounds |

## Mechanical Specifications

### Cable Assembly

|                |                      |
|----------------|----------------------|
| Width/Diameter | 0.5 in [12.7 mm]     |
| Weight         | 0.254 lbs [115.21 g] |

### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG142                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.195 in [4.95 mm]         |
| Repeated Minimum Bend Radius         | 1 in [25.4 mm]             |

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### Connectors

| Description                           | Connector 1        | Connector 2       |
|---------------------------------------|--------------------|-------------------|
| Type                                  | N Male Right Angle | N Female Bulkhead |
| Specification                         | MIL-STD-348A       | MIL-STD-348A      |
| Impedance                             | 50 Ohms            | 50 Ohms           |
| Configuration                         | Right Angle        | Straight          |
| Contact Material and Plating          | Brass, Gold        | Brass, Gold       |
| Contact Plating Specification         | 30 µin minimum     | 30 µin minimum    |
| Dielectric Type                       | PTFE               | PTFE              |
| Outer Conductor Material and Plating  |                    | Brass, Nickel     |
| Outer Conductor Plating Specification |                    | 100 µin minimum   |
| Body Material and Plating             | Brass, Nickel      | Brass, Nickel     |
| Body Plating Specification            | 100 µin minimum    | 100 µin minimum   |
| Coupling Nut Material and Plating     | Brass, Nickel      |                   |
| Coupling Nut Plating Specification    | 100 µin minimum    |                   |

### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

### Plotted and Other Data

Notes:

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### PE3W15225

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W15225**    **- xx**    **uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length

Base Number

Example: PE3W15225-12 = 12 inches long cable  
PE3W15225-100cm = 100 cm long cable

N Male Right Angle to N Female Bulkhead Cable Using RG142 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: [N Male Right Angle to N Female Bulkhead Cable Using RG142 Coax PE3W15225](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-n-female-bulkhead-cable-using-rg142-pe3w15225-p.aspx>

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PE3W15225 CAD Drawing
N Male Right Angle to N Female Bulkhead Cable Using RG142 Coax

