

N Female Bulkhead to N Male Cable Using RG142 Coax



PE3W07360

Configuration

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

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W07360 type N female bulkhead to type N male 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 female to male gender configuration with 50 ohm flexible RG142 coax. The PE3W07360 type N female to type N male cable assembly operates to 6 GHz. 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 | | 6 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|-----------|------|-------|-------|-------|-------|--------------|
| | | | Frequency | | 250 | 500 | 1000 | 2500 | |
| PE3W07360 | Custom Lengths Available | Insertion Loss (Typ.) | 0.06 | 0.09 | 0.129 | 0.211 | 0.368 | dB/ft | |
| | | | 0.2 | 0.29 | 0.43 | 0.7 | 1.21 | dB/m | |
| PE3W07360-12 | 12 inch | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.33 | 0.42 | 0.57 | dB | 0.212 |
| PE3W07360-24 | 24 inch | Insertion Loss (Typ.) | 0.32 | 0.38 | 0.46 | 0.63 | 0.94 | dB | 0.254 |
| PE3W07360-36 | 36 inch | Insertion Loss (Typ.) | 0.38 | 0.47 | 0.59 | 0.84 | 1.31 | dB | 0.296 |
| PE3W07360-48 | 48 inch | Insertion Loss (Typ.) | 0.44 | 0.55 | 0.72 | 1.05 | 1.68 | dB | 0.338 |
| PE3W07360-60 | 60 inch | Insertion Loss (Typ.) | 0.5 | 0.64 | 0.85 | 1.26 | 2.04 | dB | 0.38 |

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: | 0.212 pounds |
| Additional Weight per Inch: | 0.0035 pounds |

Mechanical Specifications

Cable Assembly

| | |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.212 lbs [96.16 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 Female Bulkhead | N Male |
| Specification | MIL-STD-348A | MIL-STD-348 |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Silver |
| Contact Plating Specification | 30 µin minimum | ASTM-B700 |
| 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 | ASTM-B689 |
| Coupling Nut Material and Plating | | Brass, Nickel |
| Coupling Nut Plating Specification | | ASTM-B689 |

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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PE3W07360

Typical Performance Data

How to Order

Part Number Configuration:

PE3W07360

- **xx**

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W07360-12 = 12 inches long cable
PE3W07360-100cm = 100 cm long cable

N Female Bulkhead to N Male 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 Female Bulkhead to N Male Cable Using RG142 Coax PE3W07360](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-n-male-cable-using-rg142-pe3w07360-p.aspx>

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PE3W07360 CAD Drawing

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