

75 Ohm BNC Male to 75 Ohm BNC Female Bulkhead Cable Using 75 Ohm RG187 Coax



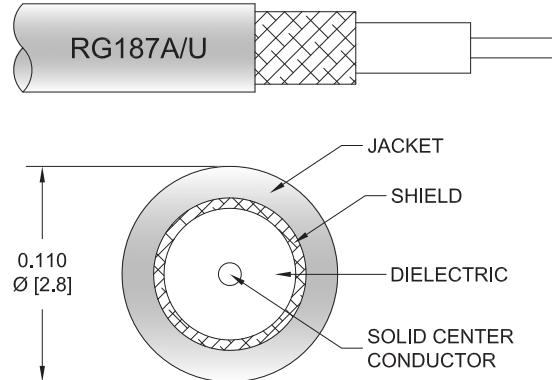
PE3W04924

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female Bulkhead
- Cable Type: RG187
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- PTFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04924 75 ohm BNC male to 75 ohm BNC female bulkhead cable using 75 ohm RG187 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 BNC to BNC cable assembly has a male to female gender configuration with 75 ohm flexible RG187 coax. The PE3W04924 BNC male to BNC female cable assembly operates to 1 GHz. Our RF cable assembly with BNC 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.

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 | 19.5 [63.98] | | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | 245 [803.81] | | | Ohms/1000ft [Ohms/Km] |
| Operating Voltage (AC) | | | 500 | Vrms |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|------|------|-------|-------|--------------|
| | | Frequency | 50 | 100 | 250 | 500 | 1000 | MHz | |
| PE3W04924 | Custom Lengths Available | Insertion Loss (Typ.) | 0.03 | 0.05 | 0.13 | 0.26 | 0.525 | dB/ft | |
| | | | 0.09 | 0.18 | 0.43 | 0.86 | 1.73 | dB/m | |
| PE3W04924-12 | 12 inch | Insertion Loss (Typ.) | 0.23 | 0.26 | 0.34 | 0.47 | 0.73 | dB | 0.078 |
| PE3W04924-24 | 24 inch | Insertion Loss (Typ.) | 0.26 | 0.31 | 0.47 | 0.73 | 1.25 | dB | 0.089 |
| PE3W04924-36 | 36 inch | Insertion Loss (Typ.) | 0.28 | 0.36 | 0.6 | 0.99 | 1.78 | dB | 0.099 |
| PE3W04924-48 | 48 inch | Insertion Loss (Typ.) | 0.31 | 0.41 | 0.73 | 1.25 | 2.3 | dB | 0.109 |
| PE3W04924-60 | 60 inch | Insertion Loss (Typ.) | 0.33 | 0.46 | 0.86 | 1.51 | 2.83 | dB | 0.119 |

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: 0.078 pounds

Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.078 lbs [35.38 g]

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG187 |
| Impedance | 75 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | PTFE, White |
| Jacket Diameter | 0.102 in [2.59 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------|----------------------|
| Type | BNC Male | BNC Female Bulkhead |
| Impedance | 75 Ohms | 75 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 μ in minimum | 30 μ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in minimum | 100 μ in minimum |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 μ in minimum | |

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W04924

Typical Performance Data

How to Order

Part Number Configuration:

PE3W04924 - xx uu

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

Length

Base Number

Example: PE3W04924-12 = 12 inches long cable
PE3W04924-100cm = 100 cm long cable

75 Ohm BNC Male to 75 Ohm BNC Female Bulkhead Cable Using 75 Ohm RG187 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: [75 Ohm BNC Male to 75 Ohm BNC Female Bulkhead Cable Using 75 Ohm RG187 Coax PE3W04924](#)

URL: <https://www.pasternack.com/75-ohm-bnc-male-to-75-ohm-bnc-female-bulkhead-cable-using-rg187-pe3w04924-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.

PE3W04924 CAD Drawing

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