

# RF Cable Assemblies Technical Data Sheet

PE35148-48

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: RG141

- Max Frequency 4 GHz
- PTFE (FG) Jacket

- General Purpose
- Laboratory Use

Pasternack's PE35148-48 BNC male to BNC male 48 inch cable using RG141 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 male gender configuration with 50 ohm flexible RG141 coax. The PE35148-48 BNC male to BNC male cable assembly operates to 4 GHz.

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.

| Description                          | Minimum | Typical      | Maximum | Units        |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range                      | DC      |              | 4       | GHz          |
| VSWR                                 |         |              | 1.4:1   |              |
| Capacitance                          |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Dielectric Withstanding Voltage (AC) |         |              | 1,500   | Vrms         |
| Jacket Spark                         |         |              | 2,000   | Vrms         |
|                                      |         |              |         |              |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable 48 Inch Length Using RG141 Coax PE35148-48](#)



## BNC Male to BNC Male Cable 48 Inch Length Using RG141 Coax

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#### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 0.1   | 0.25   | 0.5    | 1      | 4      | GHz   |
| Insertion Loss (Typ.) | 0.356 | 0.417  | 0.518  | 0.72   | 1.41   | dB    |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  | 1.4:1  |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB    |

#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 48 in [121.92 cm]  |
| Diameter | 0.571 in [14.5 mm] |
| Weight   | 0.194 lbs [88 g]   |

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG141                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Silver Plated Copper      |
| Jacket Material                      | PTFE (FG), Beige          |
| Jacket Diameter                      | 0.19 in [4.83 mm]         |

#### Connectors

| Description                   | Connector 1      | Connector 2      |
|-------------------------------|------------------|------------------|
| Type                          | BNC Male         | BNC Male         |
| Specification                 | MIL-STD-348A     | MIL-STD-348A     |
| Impedance                     | 50 Ohms          | 50 Ohms          |
| Contact Material and Plating  | Brass, Gold      | Brass, Gold      |
| Contact Plating Specification | 30μ in. minimum  | 30μ in. minimum  |
| Dielectric Type               | Teflon           | Teflon           |
| Body Material and Plating     | Brass, Nickel    | Brass, Nickel    |
| Body Plating Specification    | 100μ in. minimum | 100μ in. minimum |

#### Mechanical Specification Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable 48 Inch Length Using RG141 Coax PE35148-48](#)



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\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

#### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

#### How to Order

Part Number Configuration:

**PE35148**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE35148-12 = 12 inches long cable  
PE35148-100cm = 100 cm long cable

BNC Male to BNC Male Cable 48 Inch Length Using RG141 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: [BNC Male to BNC Male Cable 48 Inch Length Using RG141 Coax PE35148-48](#)

URL: <https://www.pasternack.com/bnc-male-bnc-male-rg141au-cable-assembly-pe35148-48-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE35148-48 CAD Drawing

BNC Male to BNC Male Cable 48 Inch Length Using RG141 Coax

