



## BNC Male to BNC Female Bulkhead Cable 48 Inch Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

PE3C3446-48

#### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female Bulkhead
- Cable Type: RG316

#### Electrical Specifications

| Description                   | Minimum | Typical      | Maximum | Units           |
|-------------------------------|---------|--------------|---------|-----------------|
| Frequency Range               | DC      |              | 3       | GHz             |
| VSWR                          |         |              | 1.4:1   |                 |
| Velocity of Propagation       |         | 69           |         | %               |
| Capacitance                   |         | 29.4 [96.46] |         | pF/ft [pF/m]    |
| DC Resistance Inner Conductor |         | 8.41 [27.59] |         | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC)        |         |              | 335     | Vrms            |
| Jacket Spark                  |         |              | 2,000   | Vrms            |

#### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5   | Units |
|-----------------------|-------|--------|--------|--------|------|-------|
| Frequency             | 0.1   | 0.25   | 0.5    | 1      | 3    | GHz   |
| Insertion Loss (Max.) | 0.66  | 0.78   | 0.99   | 1.4    | 2.38 | dB    |
| Insertion Loss (Typ.) | 0.64  | 0.84   | 1.153  | 1.72   | 2.52 | dB    |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  |      |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 |      | dB    |

#### Mechanical Specifications

##### Cable Assembly

Length\* 48 in [121.92 cm]  
Diameter 0.689 in [17.5 mm]

##### Cable

Cable Type RG316  
Impedance 50 Ohms

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 Female Bulkhead Cable 48 Inch Length Using RG316 Coax PE3C3446-48](#)



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|                                      |                            |
|--------------------------------------|----------------------------|
| 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                      | FEP, Tan                   |
| Jacket Diameter                      | 0.102 in [2.59 mm]         |

**Connectors**

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

**Mechanical Specification Notes:**

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

**Environmental Specifications**

**Temperature**

Operating Range -55 to +165 deg C

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

**Plotted and Other Data**

**Notes:**

- Values at 25°C, sea level.

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**How to Order**

Part Number Configuration:

**PE3C3446**

- **xx**

**uu**

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

Example: PE3C3446-12 = 12 inches long cable  
PE3C3446-100cm = 100 cm long cable

BNC Male to BNC Female Bulkhead Cable 48 Inch Length Using RG316 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 Female Bulkhead Cable 48 Inch Length Using RG316 Coax PE3C3446-48](https://www.pasternack.com/bnc-male-bnc-female-rg316u-cable-assembly-pe3c3446-48-p.aspx)

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**DWG TITLE**

**PE3C3446**

FSCM NO. 53919

**CAD FILE 101816**

**SIZE A**

2233

**PE PASTERNAK®**  
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