



BNC Male to BNC Male Cable 24 Inch Length Using RG142 Coax

RF Cable Assemblies Technical Data Sheet

PE3495-24

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: RG142

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 69.2% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3495-24 BNC male to BNC male 24 inch 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 BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3495-24 BNC male to BNC male cable assembly operates to 4 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 | | 4 | GHz |
| VSWR | | | 1.7:1 | |
| Velocity of Propagation | | 69.2 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 500 | 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 24 Inch Length Using RG142 Coax PE3495-24](#)



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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.) | 0.278 | 0.308 | 0.359 | 0.46 | 0.798 | dB |

Mechanical Specifications

Cable Assembly

| | |
|----------|---------------------|
| Length* | 24 in [609.6 mm] |
| Diameter | 0.571 in [14.5 mm] |
| Weight | 0.121 lbs [54.88 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] |

| | |
|------------------------------|---------------------|
| One Time Minimum Bend Radius | 0.984 in [24.99 mm] |
| Repeated Minimum Bend Radius | 2 in [50.8 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:

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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:

PE3495

- **xx**

uu

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

Example: PE3495-12 = 12 inches long cable
PE3495-100cm = 100 cm long cable

BNC Male to BNC Male Cable 24 Inch Length 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.

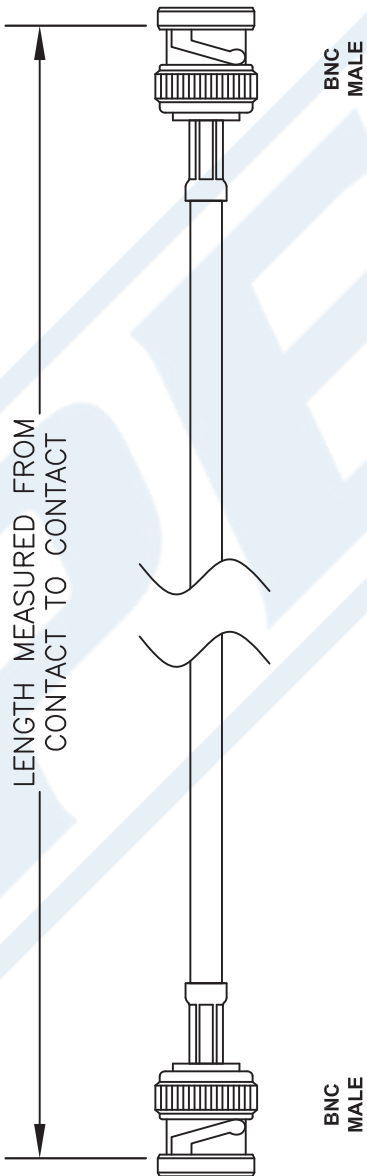
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable 24 Inch Length Using RG142 Coax PE3495-24](#)

URL: <https://www.pasternack.com/bnc-male-bnc-male-rg142bu-cable-assembly-pe3495-24-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.

PE3495-24 CAD Drawing

BNC Male to BNC Male Cable 24 Inch Length Using RG142 Coax



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

| | | | | | | | | | | |
|-----------|--|----------------|--|----------|--------|-------|-----|------|---|-----|
| DWG TITLE | | FSCM NO. 53919 | | CAD FILE | 021208 | SCALE | N/A | SIZE | A | 127 |
| PE3495 | | REV. A | | | | | | | | |

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