



## N Male to BNC Male Cable 48 Inch Length Using RG142 Coax

### RF Cable Assemblies Technical Data Sheet

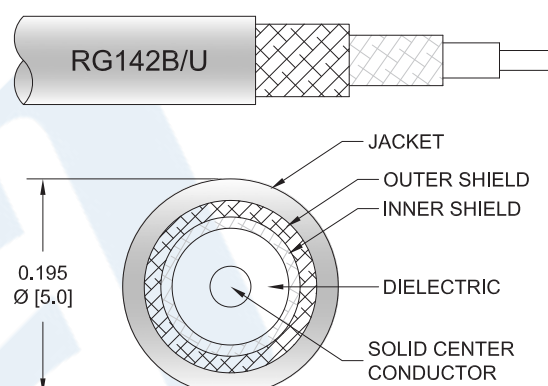
**PE3W00140-48**

#### Configuration

- Connector 1: N 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 PE3W00140-48 type N male to BNC male 48 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 type N to BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3W00140-48 type N 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                    |         |              | 1.4:1   |              |
| 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: [N Male to BNC Male Cable 48 Inch Length Using RG142 Coax PE3W00140-48](#)



## N Male to BNC Male Cable 48 Inch Length Using RG142 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W00140-48**

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5  | Units |
|-----------------------|------|------|------|------|-----|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 4   | GHz   |
| Insertion Loss (Max.) | 0.36 | 0.42 | 0.52 | 0.72 | 1.4 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes as estimated insertion loss of 0.2dB of connector loss.

#### Mechanical Specifications

##### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 48 in [121.92 cm]  |
| Diameter | 0.83 in [21.08 mm] |

##### 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]      |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to BNC Male Cable 48 Inch Length Using RG142 Coax PE3W00140-48](#)



## N Male to BNC Male Cable 48 Inch Length Using RG142 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W00140-48**

#### Connectors

| Description                       | Connector 1        | Connector 2      |
|-----------------------------------|--------------------|------------------|
| Type                              | N 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  |
| Dielectric Type                   | Teflon             | Teflon           |
| Body Material and Plating         | Brass, Tri-Metal   | Brass, Nickel    |
| Body Plating Specification        |                    | 100μ in. minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal   |                  |
| Hex Size                          | 18 mm              |                  |
| Torque                            | 9 in-lbs [1.02 Nm] |                  |

#### Mechanical Specification Notes:

\*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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to BNC Male Cable 48 Inch Length Using RG142 Coax PE3W00140-48](#)



## N Male to BNC Male Cable 48 Inch Length Using RG142 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W00140-48**

#### How to Order

Part Number Configuration:

**PE3W00140**

- **xx**

**uu**

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

Example: PE3W00140-12 = 12 inches long cable  
PE3W00140-100cm = 100 cm long cable

N Male to BNC Male Cable 48 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.

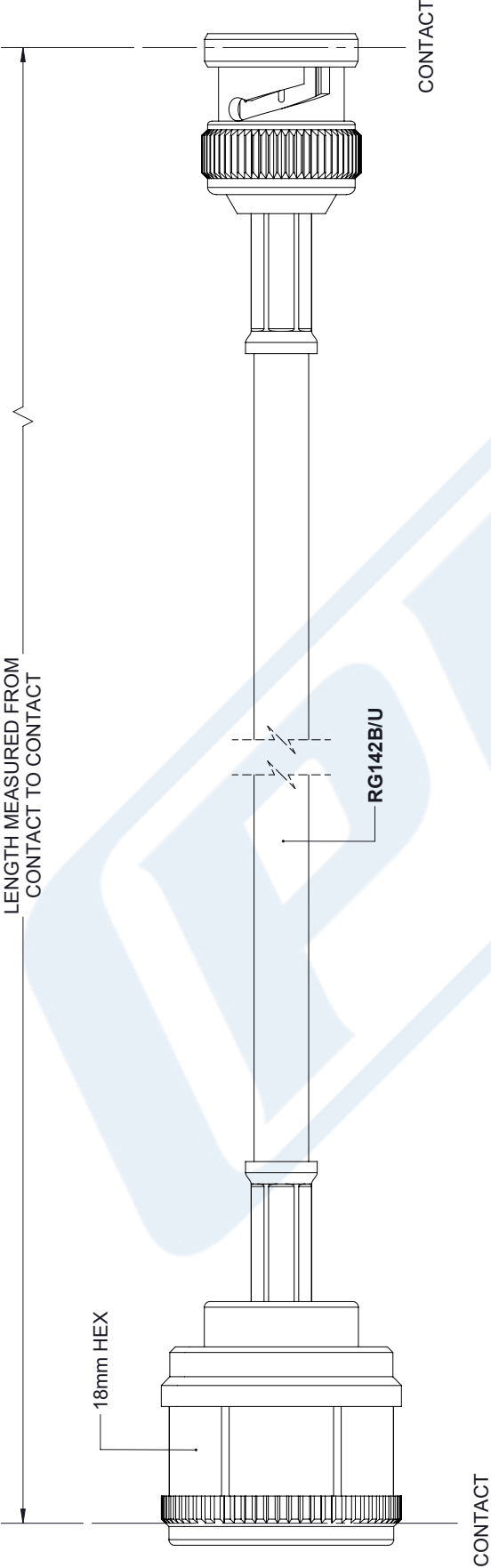
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to BNC Male Cable 48 Inch Length Using RG142 Coax PE3W00140-48](#)

URL: <https://www.pasternack.com/n-male-bnc-male-rg142bu-cable-assembly-pe3w00140-48-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.

PE3W00140-48 CAD Drawing  
N Male to BNC Male Cable 48 Inch Length Using RG142 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 05/02/19 | SELLIS   |



|                                                                                                  |             |
|--------------------------------------------------------------------------------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |             |
| TOLERANCES:                                                                                      | FRACTIONS   |
| X±.2 [5.08]                                                                                      | ±.132       |
| .XX±.01 [.25]                                                                                    | ±.132       |
| .XXX±.005 [.13]                                                                                  | ANGLES ± 1° |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |             |
| THIRD-ANGLE PROJECTION                                                                           |             |

|                                                                                                                                                                                         |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>PE PASTERNAK</b><br>an INFINITI brand                                                                                                                                                |           |
| Pasternack Enterprises, Inc.<br>P.O. Box 16759, Irvine, CA 92623.<br>Phone: 1.949.261.1920   1.866.727.8376<br>Fax: 1.949.261.7451<br>www.pasternack.com   e-mail: sales@pasternack.com |           |
| SIZE                                                                                                                                                                                    | A         |
| CAGE                                                                                                                                                                                    | 53919     |
| DRAWN BY                                                                                                                                                                                | K.DANG    |
| PART NUMBER                                                                                                                                                                             | PE3W00140 |
| REV                                                                                                                                                                                     | A         |

|                                                                                                                        |        |
|------------------------------------------------------------------------------------------------------------------------|--------|
| THE INFORMATION AND<br>DESIGN IN THIS DOCUMENT<br>IS THE PROPERTY OF<br>PASTERNAK CORPORATION.<br>ALL RIGHTS RESERVED. |        |
| SHEET                                                                                                                  | 1 OF 1 |
| SCALE                                                                                                                  | N/A    |

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT  
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.