



## BNC Female to BNC Male Right Angle Cable Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

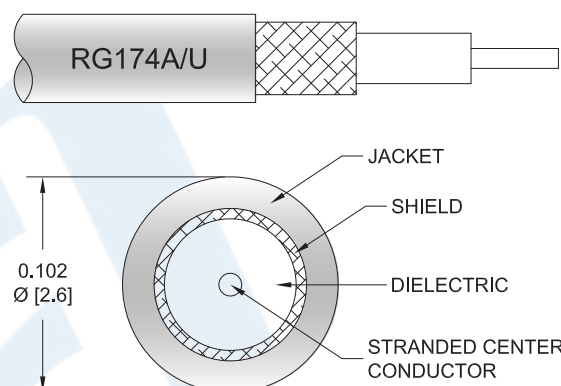
**PE3W06649**

#### Configuration

- Connector 1: BNC Female
- Connector 2: BNC Male Right Angle
- Cable Type: RG174

#### Features

- 66% Phase Velocity
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W06649 BNC female to BNC male right angle cable using RG174 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 female to male gender configuration with 50 ohm flexible RG174 coax. The right angle BNC interface on the RG174 cable allows for easier connections in tight spaces.

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        |
|-------------------------|---------|----------------|---------|--------------|
| Velocity of Propagation |         | 66             |         | %            |
| Capacitance             |         | 31.08 [101.97] |         | pF/ft [pF/m] |

#### Mechanical Specifications

##### Cable Assembly

Diameter

0.57 in [14.48 mm]

##### Cable

Cable Type

RG174

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female to BNC Male Right Angle Cable Using RG174 Coax PE3W06649](#)



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|                                      |                     |
|--------------------------------------|---------------------|
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.11 in [2.79 mm]   |

#### Connectors

| Description                        | Connector 1     | Connector 2          |
|------------------------------------|-----------------|----------------------|
| Type                               | BNC Female      | BNC Male Right Angle |
| Specification                      | MIL-STD-348A    | MIL-STD-348A         |
| Impedance                          | 50 Ohms         | 50 Ohms              |
| Contact Material and Plating       | Brass, Gold     | Brass, Silver        |
| Contact Plating Specification      | 30 µin minimum  | ASTM-B700            |
| Dielectric Type                    | PTFE            | PTFE                 |
| Body Material and Plating          | Brass, Nickel   | Brass, Nickel        |
| Body Plating Specification         | 100 µin minimum | ASTM-B689            |
| Coupling Nut Material and Plating  |                 | Brass, Nickel        |
| Coupling Nut Plating Specification |                 | ASTM-B689            |

#### 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 -40 to +80 deg C

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

#### Plotted and Other Data

Notes:

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**PE3W06649**

#### How to Order

Part Number Configuration:

**PE3W06649**

- **xx**

**uu**

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

Example: PE3W06649-12 = 12 inches long cable  
PE3W06649-100cm = 100 cm long cable

BNC Female to BNC Male Right Angle Cable Using RG174 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.

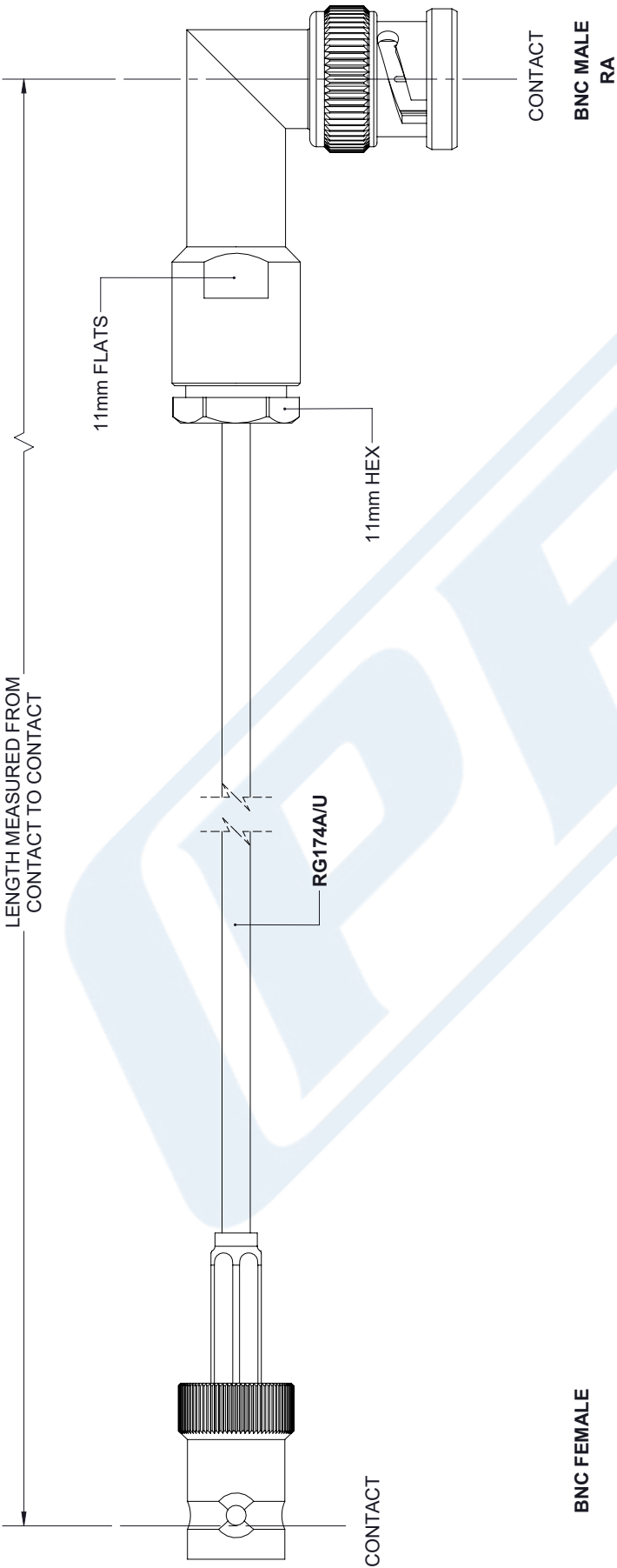
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Female to BNC Male Right Angle Cable Using RG174 Coax PE3W06649](https://www.pasternack.com/bnc-female-bnc-male-rg174au-cable-assembly-pe3w06649-p.aspx)

URL: <https://www.pasternack.com/bnc-female-bnc-male-rg174au-cable-assembly-pe3w06649-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.

PE3W06649 CAD Drawing  
BNC Female to BNC Male Right Angle Cable Using RG174 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |



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

|   |           |
|---|-----------|
| <b>PE PASTERNAK</b><br>an INFINITO brand  |           |
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| SIZE  | CAGE      |
| A   | 53919     |
| DRAWN BY  | K.DANG    |
| PART NUMBER   | PE3W06649 |
| REV   | A         |

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| SHEET  | 1 OF 1 |
| SCALE  | N/A    |

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