



Push-On SMP Female Right Angle to BNC  
Male Cable 200 cm Using RG174 Coax

## RF Cable Assemblies Technical Data Sheet

**PE3W06234-200CM**

### Configuration

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

### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket

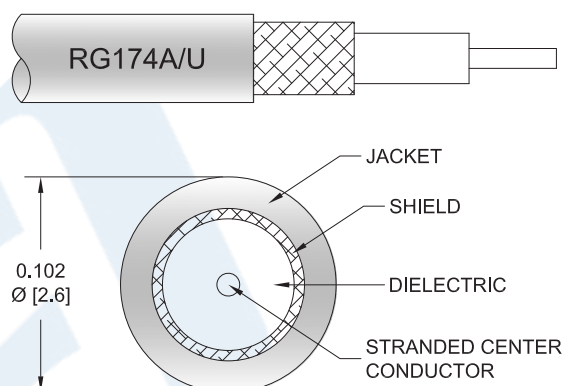
### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W06234-200CM SMP female push-on right angle to BNC male 200 cm 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 SMP to BNC cable assembly has a female to male gender configuration with 50 ohm flexible RG174 coax. The PE3W06234-200CM SMP female to BNC male cable assembly operates to 1 GHz. The right angle SMP 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.



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Push-On SMP Female Right Angle to BNC Male Cable 200 cm Using RG174 Coax PE3W06234-200CM](#)



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### Electrical Specifications

| Description             | Minimum | Typical        | Maximum | Units        |
|-------------------------|---------|----------------|---------|--------------|
| Frequency Range         | DC      |                | 1,000   | MHz          |
| VSWR                    |         |                | 1.4:1   |              |
| Velocity of Propagation |         | 66             |         | %            |
| Capacitance             |         | 31.08 [101.97] |         | pF/ft [pF/m] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5    | Units |
|-----------------------|------|------|------|------|-------|-------|
| Frequency             | 50   | 100  | 250  | 500  | 1,000 | MHz   |
| Insertion Loss (Max.) | 0.77 | 0.86 | 1.12 | 1.54 | 2.4   | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.2 dB per SMP female right angle connector and 0.1 dB per BNC male connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 78.74 in [200 cm]  |
| Diameter | 0.57 in [14.48 mm] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG174               |
| 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]   |

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### Connectors

| Description                           | Connector 1            | Connector 2     |
|---------------------------------------|------------------------|-----------------|
| Type                                  | SMP Female Right Angle | BNC Male        |
| Specification                         | MIL-STD-348A           | MIL-STD-348A    |
| Impedance                             | 50 Ohms                | 50 Ohms         |
| Connection Method                     | Push-On                |                 |
| Contact Material and Plating          | Beryllium Copper, Gold | Brass, Gold     |
| Contact Plating Specification         | 30µ in. minimum        | 50 µin minimum  |
| Dielectric Type                       | Teflon                 | PTFE            |
| Outer Conductor Material and Plating  | Beryllium Copper, Gold | Brass, Nickel   |
| Outer Conductor Plating Specification | 3µ in. minimum         |                 |
| Body Material and Plating             | Brass, Gold            | Brass, Nickel   |
| Body Plating Specification            | 3µ in. minimum         | 100 µin minimum |
| Coupling Nut Material and Plating     |                        | Brass, Nickel   |
| Coupling Nut Plating Specification    |                        | 100 µin minimum |
| Seal Gasket Material                  |                        | Silicone        |

### Environmental Specifications

#### Temperature

Operating Range

-40 to +80 deg C

**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: [Push-On SMP Female Right Angle to BNC Male Cable 200 cm Using RG174 Coax PE3W06234-200CM](#)



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**PE3W06234-200CM**

### How to Order

Part Number Configuration:

**PE3W06234**

- **xx**

**uu**

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

Example: PE3W06234-12 = 12 inches long cable  
PE3W06234-100cm = 100 cm long cable

Push-On SMP Female Right Angle to BNC Male Cable 200 cm 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: [Push-On SMP Female Right Angle to BNC Male Cable 200 cm Using RG174 Coax PE3W06234-200CM](https://www.pasternack.com/smp-female-bnc-male-rg174au-cable-assembly-pe3w06234-200cm-p.aspx)

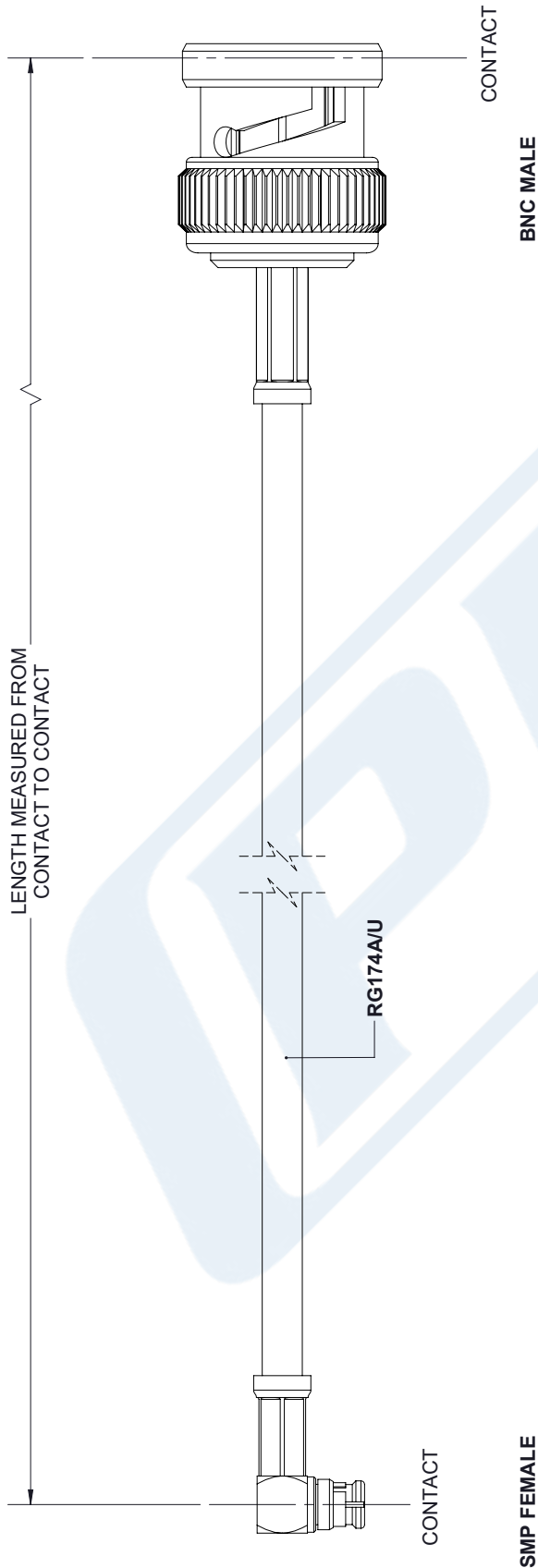
URL: <https://www.pasternack.com/smp-female-bnc-male-rg174au-cable-assembly-pe3w06234-200cm-p.aspx>

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.

# PE3W06234-200CM CAD Drawing

Push-On SMP Female Right Angle to BNC Male Cable 200 cm Using RG174 Coax

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 1/20/2020 | S.ELLIS  |



|                                                                                                  |                  |
|--------------------------------------------------------------------------------------------------|------------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |                  |
| TOLERANCES:                                                                                      |                  |
| .X = ± .2 [5.08]                                                                                 | FRACTIONS ± 1/32 |
| .XX = ± .02 [.51]                                                                                | ANGLES ± 1°      |
| .XXX = ± .005 [.13]                                                                              |                  |
| CABLE LENGTH (L) TOLERANCES:                                                                     |                  |
| L ≤ 12 [305] = +1 [25] / -0                                                                      |                  |
| 12 [305] < L ≤ 60 [1524] = +2 [51] / -0                                                          |                  |
| 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0                                                       |                  |
| 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0                                                      |                  |
| 300 [7620] < L = +5% / -0                                                                        |                  |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |                  |

|                                                                                                                                                                                                                                                 |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
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| SIZE                                                                                                                                                                                                                                            | CAGE CODE |
| A                                                                                                                                                                                                                                               | 53919     |
| DRAWN BY                                                                                                                                                                                                                                        | ITEM NO.  |
| K.DANG                                                                                                                                                                                                                                          | PE3W06234 |
| REV                                                                                                                                                                                                                                             | A         |

|                                                                                                                       |        |
|-----------------------------------------------------------------------------------------------------------------------|--------|
| THIRD-ANGLE PROJECTION                                                                                                |        |
|                                                                                                                       |        |
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| SHEET                                                                                                                 | 1 OF 1 |
| SCALE                                                                                                                 | N/A    |

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