



## TNC Female Bulkhead to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

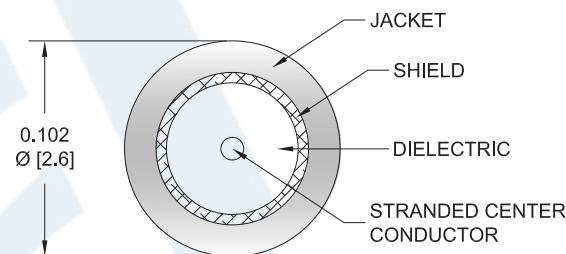
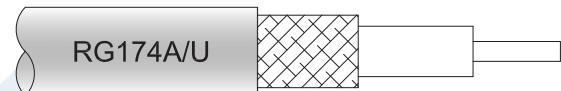
PE3W03417-150CM

#### Configuration

- Connector 1: TNC Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: RG174

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W03417-150CM TNC female bulkhead to SMA male right angle 150 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 TNC to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG174 coax. The PE3W03417-150CM TNC female to SMA male cable assembly operates to 1 GHz. The right angle SMA interface on the RG174 cable allows for easier connections in tight spaces. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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      |               | 1,000   | MHz          |
| VSWR                    |         |               | 1.5:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 31.1 [102.03] |         | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Female Bulkhead to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax PE3W03417-150CM](#)



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#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4    | F5 | Units |
|-----------------------|------|------|------|-------|----|-------|
| Frequency             | 100  | 250  | 500  | 1,000 |    | MHz   |
| Insertion Loss (Max.) | 0.72 | 0.91 | 1.24 | 1.88  |    | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length\*

59.05 in [149.99 cm]

##### Cable

Cable Type

RG174

Impedance

50 Ohms

Inner Conductor Type

Stranded

Inner Conductor Material and Plating

Copper Clad Steel, Silver

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                               | TNC Female Bulkhead | SMA Male Right Angle |
| Specification                      |                     | MIL-STD-348A         |
| Impedance                          | 50 Ohms             | 50 Ohms              |
| Contact Material and Plating       |                     | Brass, Gold          |
| Contact Plating Specification      |                     | 50 $\mu$ in minimum  |
| Dielectric Type                    |                     | PTFE                 |
| Body Material and Plating          | Brass, Nickel       | Brass, Nickel        |
| Body Plating Specification         |                     | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating  |                     | Brass, Nickel        |
| Coupling Nut Plating Specification |                     | 100 $\mu$ in minimum |
| Hex Size                           |                     | 5/16 inch            |
| Torque                             |                     | 3 in-lbs [0.34 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:

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PE3W03417-150CM

#### How to Order

Part Number Configuration:

**PE3W03417**

- **xx**      **uu**

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

Example: PE3W03417-12 = 12 inches long cable  
PE3W03417-100cm = 100 cm long cable

TNC Female Bulkhead to SMA Male Right Angle Cable 150 cm Length 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: [TNC Female Bulkhead to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax](#)  
[PE3W03417-150CM](#)

URL: <https://www.pasternack.com/tnc-female-sma-male-rg174au-cable-assembly-pe3w03417-150cm-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.

# PE3W03417-150CM CAD Drawing

TNC Female Bulkhead to SMA Male Right Angle Cable 150 cm Length Using RG174 Coax

