



SMC Plug Right Angle to TNC Female  
Bulkhead Cable Using RG178 Coax

RF Cable Assemblies Technical Data Sheet

PE3W05426

### Configuration

- Connector 1: SMC Plug Right Angle
- Connector 2: TNC Female Bulkhead
- Cable Type: RG178

### Features

- 70% Phase Velocity
- FEP Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W05426 SMC plug right angle to TNC female bulkhead cable using RG178 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 SMC to TNC cable assembly has a plug to female gender configuration with 50 ohm flexible RG178 coax. The right angle SMC interface on the RG178 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        |
|-------------------------|---------|--------------|---------|--------------|
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

### Mechanical Specifications

#### Cable Assembly

##### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG178                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 1                         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug Right Angle to TNC Female Bulkhead Cable Using RG178 Coax PE3W05426](#)



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Shield Layer 1 Silver Plated Copper Braid  
Jacket Material FEP, Tan  
Jacket Diameter 0.072 in [1.83 mm]

Repeated Minimum Bend Radius 0.4 in [10.16 mm]

#### Connectors

| Description                        | Connector 1            | Connector 2         |
|------------------------------------|------------------------|---------------------|
| Type                               | SMC Plug Right Angle   | TNC Female Bulkhead |
| Specification                      | MIL-STD-348A           |                     |
| Impedance                          | 50 Ohms                | 50 Ohms             |
| Contact Material and Plating       | Beryllium Copper, Gold |                     |
| Contact Plating Specification      | 30 µin minimum         |                     |
| Dielectric Type                    | PTFE                   |                     |
| Body Material and Plating          | Brass, Nickel          | Brass, Nickel       |
| Body Plating Specification         | 100 µin minimum        |                     |
| Coupling Nut Material and Plating  | Brass, Nickel          |                     |
| Coupling Nut Plating Specification | 100 µin minimum        |                     |
| Hex Size                           | 1/4 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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#### How to Order

Part Number Configuration:

**PE3W05426**

- **xx**

**uu**

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

Example: PE3W05426-12 = 12 inches long cable  
PE3W05426-100cm = 100 cm long cable

SMC Plug Right Angle to TNC Female Bulkhead Cable Using RG178 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: [SMC Plug Right Angle to TNC Female Bulkhead Cable Using RG178 Coax PE3W05426](https://www.pasternack.com/smc-plug-tnc-female-rg178bu-cable-assembly-pe3w05426-p.aspx)

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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.

# PE3W05426 CAD Drawing

SMC Plug Right Angle to TNC Female Bulkhead Cable Using RG178 Coax

