



## TNC Male to Push-On SMP Female Right Angle Cable 100 cm Length Using RG316 Coax

### RF Cable Assemblies Technical Data Sheet

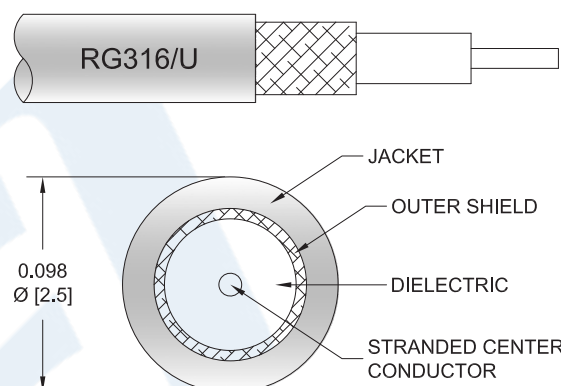
PE3W05738-100CM

#### Configuration

- Connector 1: TNC Male
- Connector 2: Push-OnSMP Female Right Angle
- Cable Type: RG316

#### Features

- Max Frequency 2.5 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05738-100CM TNC male to SMP female push-on right angle 100 cm cable using RG316 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 SMP cable assembly has a male to female gender configuration with 50 ohm flexible RG316 coax. The PE3W05738-100CM TNC male to SMP female cable assembly operates to 2.5 GHz. The right angle SMP interface on the RG316 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        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 2.5     | GHz          |
| VSWR                    |         |              | 1.5:1   |              |
| Velocity of Propagation |         | 69           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |              | 350     | Vrms         |
| Jacket Spark            |         |              | 2,000   | Vrms         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to Push-On SMP Female Right Angle Cable 100 cm Length Using RG316 Coax PE3W05738-100CM](#)



**TNC Male to Push-On SMP Female Right Angle  
Cable 100 cm Length Using RG316 Coax**

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**PE3W05738-100CM**

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 3    | GHz   |
| Insertion Loss (Max.) | 0.83 | 1.08 | 1.55 | 2.04 | 2.21 | 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 an estimated insertion loss of 0.3dB of connector loss.

**Mechanical Specifications**

**Cable Assembly**

|          |                   |
|----------|-------------------|
| Length*  | 39.37 in [100 cm] |
| Diameter | 0.6 in [15.24 mm] |

**Cable**

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.102 in [2.59 mm]         |

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#### Connectors

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

#### 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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PE3W05738-100CM

#### How to Order

Part Number Configuration:

**PE3W05738**

- **xx**

**uu**

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

Example: PE3W05738-12 = 12 inches long cable  
PE3W05738-100cm = 100 cm long cable

TNC Male to Push-On SMP Female Right Angle Cable 100 cm Length Using RG316 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 Male to Push-On SMP Female Right Angle Cable 100 cm Length Using RG316 Coax PE3W05738-100CM](https://www.pasternack.com/tnc-male-smp-female-rg316u-cable-assembly-pe3w05738-100cm-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.

# PE3W05738-100CM CAD Drawing

TNC Male to Push-On SMP Female Right Angle Cable 100 cm Length Using RG316 Coax

