



## SMA Male Right Angle to TNC Male Right Angle Cable 50 cm Length Using RG223 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

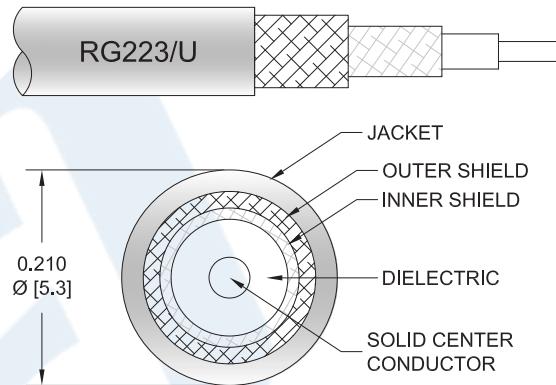
PE3W03671LF-50CM

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Male Right Angle
- Cable Type: RG223

#### Features

- Max Frequency 3 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W03671LF-50CM SMA male right angle to TNC male right angle 50 cm cable using RG223 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 SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3W03671LF-50CM SMA male to TNC male cable assembly operates to 3 GHz. The right angle SMA and right angle TNC interfaces on the RG223 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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      |               | 3       | GHz          |
| VSWR                    |         |               | 1.5:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 500     | Vrms         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to TNC Male Right Angle Cable 50 cm Length Using RG223 Coax , LF Solder PE3W03671LF-50CM](#)



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#### Specifications by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.25  | 0.5   | 1     | 2.5   | 3     | GHz   |
| Insertion Loss (Max.) | 0.483 | 0.511 | 0.619 | 0.747 | 0.806 | 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 0.4dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length\*  
Diameter

19.68 in [499.87 mm]  
0.59 in [14.99 mm]

##### Cable

Cable Type  
Impedance  
Inner Conductor Type  
Inner Conductor Material and Plating  
Dielectric Type  
Number of Shields  
Shield Layer 1  
Shield Layer 2  
Jacket Material  
Jacket Diameter

RG223  
50 Ohms  
Solid  
Copper, Silver  
PE  
2  
Silver Plated Copper Braid  
Silver Plated Copper Braid  
PVC, Black  
0.209 in [5.31 mm]

Repeated Minimum Bend Radius

1 in [25.4 mm]

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#### Connectors

| Description                        | Connector 1          | Connector 2          |
|------------------------------------|----------------------|----------------------|
| Type                               | SMA Male Right Angle | TNC Male Right Angle |
| Specification                      | MIL-STD-348A         | MIL-STD-348A         |
| Impedance                          | 50 Ohms              | 50 Ohms              |
| Contact Material and Plating       | Brass, Gold          | Brass, Gold          |
| Contact Plating Specification      | 50 $\mu$ in minimum  | 30 $\mu$ in minimum  |
| Dielectric Type                    | PTFE                 | PTFE                 |
| Body Material and Plating          | Brass, Nickel        | Brass, Nickel        |
| Body Plating Specification         | 100 $\mu$ in minimum | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating  | Brass, Nickel        | Brass, Nickel        |
| Coupling Nut Plating Specification | 100 $\mu$ in minimum | 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.

#### 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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PE3W03671LF-50CM

#### How to Order

Part Number Configuration:

**PE3W03671LF**

- **xx**

**uu**

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

Example: PE3W03671LF-12 = 12 inches long cable  
PE3W03671LF-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Right Angle Cable 50 cm Length Using RG223 Coax , LF Solder 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: [SMA Male Right Angle to TNC Male Right Angle Cable 50 cm Length Using RG223 Coax , LF Solder PE3W03671LF-50CM](#)

URL: <https://www.pasternack.com/sma-male-tnc-male-rg223u-cable-assembly-pe3w03671lf-50cm-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.

**PE3W03671LF-50CM CAD Drawing**  
 SMA Male Right Angle to TNC Male Right Angle Cable  
 50 cm Length Using RG223 Coax , LF Solder

