



SMA Male Right Angle to SMA Male Right Angle  
Cable 6 Inch Length Using RG223 Coax, RoHS

RF Cable Assemblies Technical Data Sheet

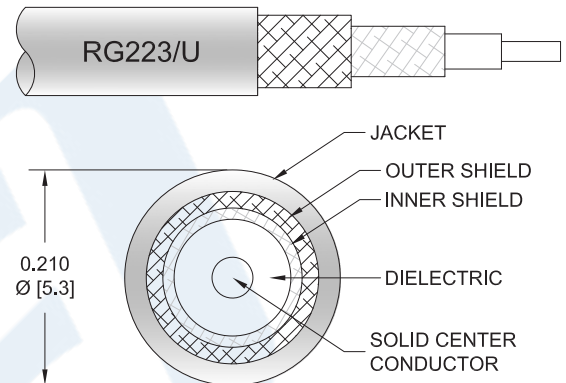
PE3428LF-6

**Configuration**

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

**Features**

- Max Frequency 12.4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3428LF-6 SMA male right angle to SMA male right angle 6 inch 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3428LF-6 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA 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.

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 SMA Male Right Angle Cable 6 Inch Length Using RG223 Coax, RoHS PE3428LF-6](#)



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### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 12.4    | GHz          |
| VSWR                    |         |               | 1.4:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 500     | Vrms         |

### Specifications by Frequency

| Description           | F1    | F2     | F3     | F4     | F5     | Units |
|-----------------------|-------|--------|--------|--------|--------|-------|
| Frequency             | 0.5   | 1      | 2.5    | 5      | 12.4   | GHz   |
| Insertion Loss (Typ.) | 0.245 | 0.267  | 0.31   | 0.368  |        | dB    |
| VSWR (Max.)           | 1.4:1 | 1.4:1  | 1.4:1  | 1.4:1  | 1.4:1  |       |
| Return Loss (Max.)    | 15.56 | 15.563 | 15.563 | 15.563 | 15.563 | dB    |

### Mechanical Specifications

#### Cable Assembly

Weight 0.046 lbs [20.87 g]

#### Cable

Cable Type RG223  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Silver Plated Copper Braid  
Jacket Material PVC, Black  
Jacket Diameter 0.21 in [5.33 mm]

One Time Minimum Bend Radius 1 in [25.4 mm]

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### Connectors

| Description                   | Connector 1          | Connector 2          |
|-------------------------------|----------------------|----------------------|
| Type                          | SMA Male Right Angle | SMA 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 | 50μ in. minimum      | 50μ in. minimum      |
| Dielectric Type               | Teflon               | Teflon               |
| Body Material and Plating     | Brass, Nickel        | Brass, Nickel        |
| Body Plating Specification    | 100μ in. minimum     | 100μ in. minimum     |
| Hex Size                      | 5/16 in              | 5/16 in              |
| Torque                        | 5 in-lbs [0.57 Nm]   | 5 in-lbs [0.57 Nm]   |

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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**How to Order**

Part Number Configuration:

**PE3428LF**

- **xx**

**uu**

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

Example: PE3428LF-12 = 12 inches long cable  
PE3428LF-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Right Angle Cable 6 Inch Length Using RG223 Coax, RoHS 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.

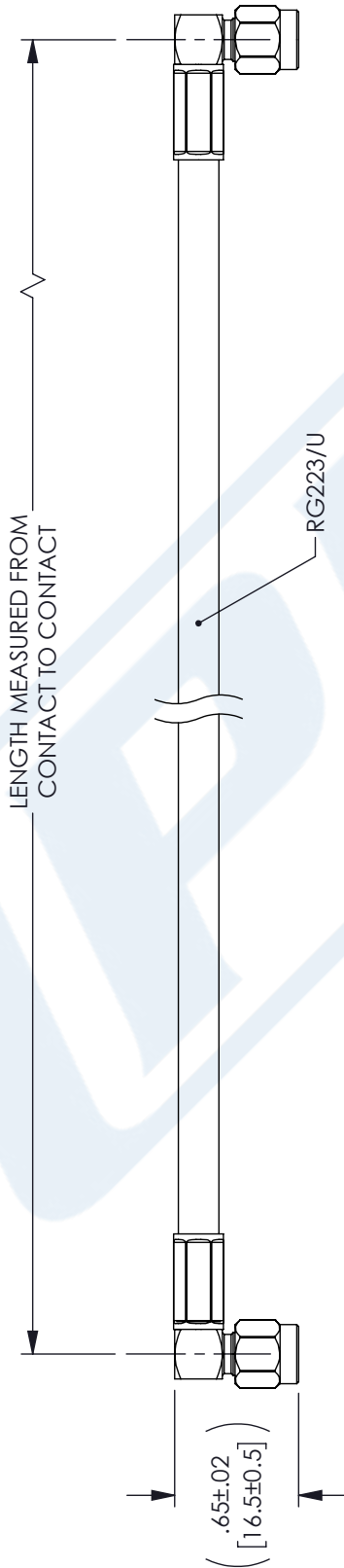
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URL: <https://www.pasternack.com/sma-male-sma-male-rg223u-cable-assembly-pe3428lf-6-p.aspx>

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.

LEAD FREE SOLDER

| REVISIONS |                                    |            |          |
|-----------|------------------------------------|------------|----------|
| REV.      | DESCRIPTION                        | DATE       | APPROVED |
| B         | PE3428_xx and PE3428LF_xx 20220405 | 04/18/2022 | AGANWANI |



2X SMA MALE  
RIGHT ANGLE

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

|               |        |             |
|---------------|--------|-------------|
| X = ± .2      | [.008] | FRACTIONS   |
| .XX = ± .02   | [.51]  | ± 1/32      |
| .XXX = ± .005 | [.13]  | ANGLES ± 1° |

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%L / -0     |

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.



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|      |           |            |          |
|------|-----------|------------|----------|
| SIZE | CAGE CODE | DRAWN BY   | ITEM NO. |
| A    | 53919     | DFRISIELLO | PE3428LF |

THIRD-ANGLE PROJECTION



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|       |     |    |   |
|-------|-----|----|---|
| SHEET | 1   | OF | 1 |
| SCALE | N/A |    |   |
| REV   | B   |    |   |