



# SMA Male QD Connector Crimp/Solder Attachment For RG142, RG223, RG400, RG55

## RF Connectors Technical Data Sheet

PE44461

### Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- RG142, RG223, RG400, RG55 Interface Type
- Crimp/Solder Attachment

### Electrical Specifications

| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 12.4    | GHz   |
| VSWR                                 |         |         | 1.27:1  |       |
| Operating Voltage (AC)               |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC) |         |         | 1,000   |       |

### Mechanical Specifications

#### Size

|            |                    |
|------------|--------------------|
| Length     | 1.12 in [28.45 mm] |
| Width/Dia. | 0.51 in [12.95 mm] |
| Weight     | 0.018 lbs [8.16 g] |

#### Material Specifications

| Description  | Material         | Plating                    |
|--------------|------------------|----------------------------|
| Contact      | Beryllium Copper | Gold<br>50µ in. minimum    |
| Insulation   | Teflon           |                            |
| Body         | Brass            | Gold<br>10µ in. minimum    |
| Coupling Nut | Brass            | Nickel<br>100µ in. minimum |

### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

Not RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male QD Connector Crimp/Solder Attachment For RG142, RG223, RG400, RG55 PE44461](#)



SMA Male QD Connector Crimp/Solder Attachment  
For RG142, RG223, RG400, RG55

RF Connectors Technical Data Sheet

PE44461

**Plotted and Other Data**

Notes:

SMA Male QD Connector Crimp/Solder Attachment For RG142, RG223, RG400, RG55 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

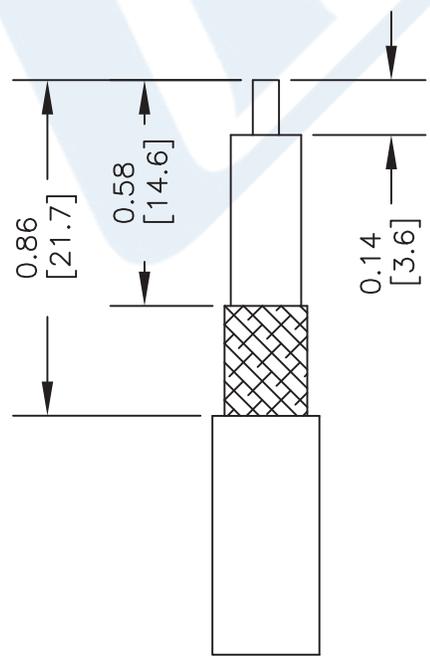
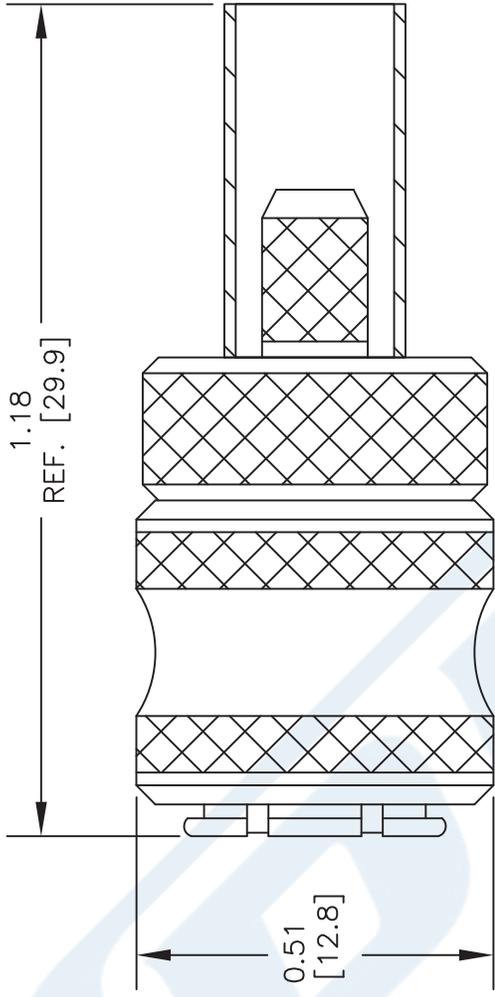
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male QD Connector Crimp/Solder Attachment For RG142, RG223, RG400, RG55 PE44461](http://www.pasternack.com/sma-male-quick-disconnect-for-rg223u-pe44461-p.aspx)

URL: <http://www.pasternack.com/sma-male-quick-disconnect-for-rg223u-pe44461-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.

# PE44461 CAD Drawing

SMA Male QD Connector Crimp/Solder Attachment For RG142, RG223, RG400, RG55



STRIPPING DIMENSIONS  
CRIMP SIZE REQUIRED  
 CONTACT: SOLDER  
 FERRULE: .213" HEX CRIMP TOOL

DWG TITLE

**PE44461**

FSCM NO. 53919

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 050613

SCALE N/A

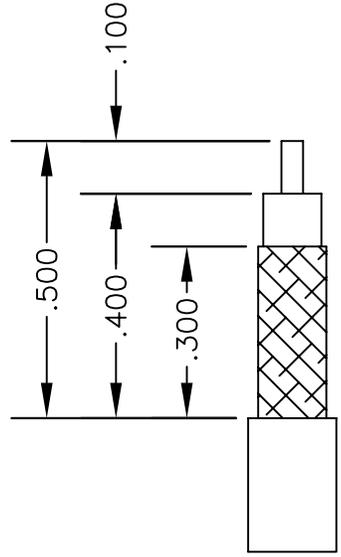
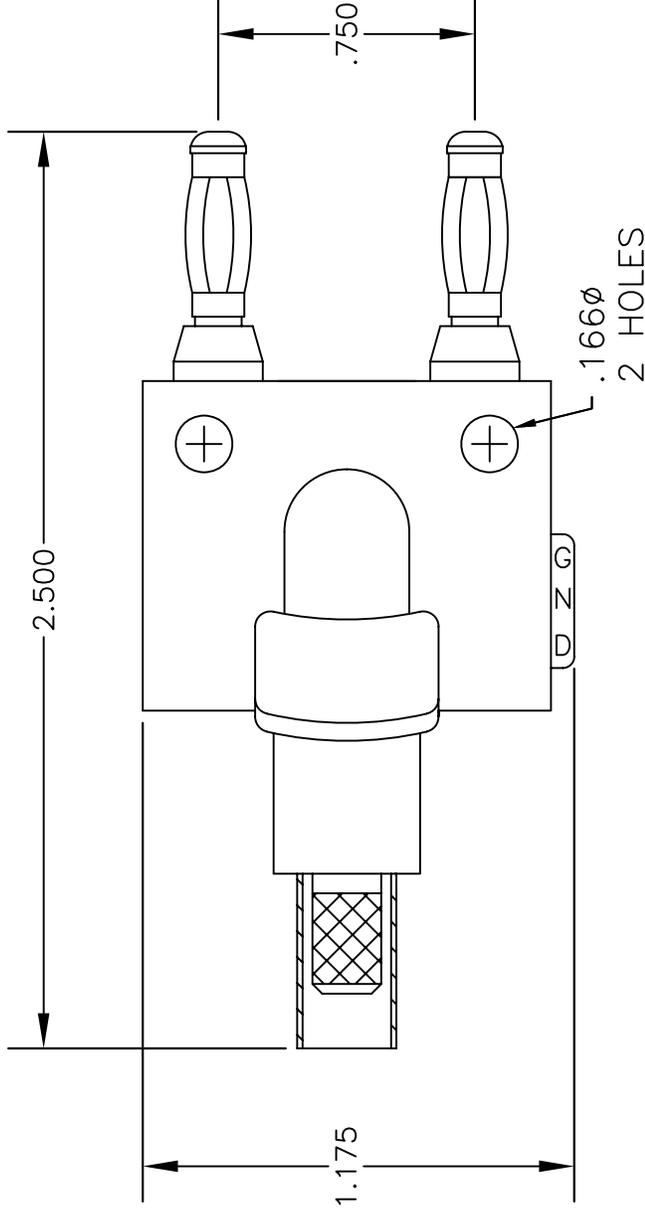
SIZE A

2233

**PE PASTERNAK®**  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** www.pasternack.com | **E-Mail:** sales@pasternack.com

**MATERIALS**

|              |                     |
|--------------|---------------------|
| BODY         | BRASS NICKEL PLATED |
| CONTACT      | GOLD PLATED         |
| INSULATOR    | ABS                 |
| 2 CONDUCTORS | BRASS NICKEL PLATED |



STRIPPING DIMENSIONS

CRIMP SIZES REQUIRED

CONTACT: .068" HEX CRIMP TOOL

FERRULE: .213" HEX CRIMP TOOL



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**COAXIAL & FIBER OPTICS**

|               |                |  |          |
|---------------|----------------|--|----------|
| DWG TITLE     |                | DES.   |          |
| <b>PE4089</b> |                | DOUBLE BANANA PLUG CRIMP ATTACHMENT FOR RG55, RG142, RG223 & RG400 |          |
| SIZE A        | FSCM NO. 53919 | CAD FILE   | 0'10'305 |
|               |                | SCALE  | N/A      |
|               |                |  | 127      |

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## Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket

### TECHNICAL DATA SHEET

RG223/U

#### Configuration

|                                      |  |
|--------------------------------------|--|
| Inner Conductor Material and Plating | Copper, Silver   |
| Dielectric Type                      | PE   |
| Shield Materials                     | Silver Plated Copper Braid, Silver Plated Copper Braid |
| Jacket Material and Color            | PVC, Black   |

#### Electrical Specifications

|                                  |               |
|----------------------------------|---------------|
| Impedance, Ohms                  | 50            |
| Velocity of Propagation, %       | 66            |
| Maximum Operating Frequency, GHz | 12.4          |
| Capacitance, pF/ft [pF/m]        | 30.8 [101.05] |
| Maximum Operating Voltage, Volts | 1,900         |

#### Electrical Specifications by Frequency

##### Frequency 1

|                                 |           |
|---------------------------------|-----------|
| Frequency, MHz                  | 100       |
| Attenuation, dB/100ft [dB/100m] | 4 [13.12] |

##### Frequency 2

|                                 |            |
|---------------------------------|------------|
| Frequency, MHz                  | 400        |
| Attenuation, dB/100ft [dB/100m] | 8.2 [26.9] |

##### Frequency 3

|                                 |              |
|---------------------------------|--------------|
| Frequency, MHz                  | 1000         |
| Attenuation, dB/100ft [dB/100m] | 13.4 [43.96] |

##### Frequency 4

|                                 |              |
|---------------------------------|--------------|
| Frequency, GHz                  | 3            |
| Attenuation, dB/100ft [dB/100m] | 24.8 [81.36] |

##### Frequency 5

|                                 |               |
|---------------------------------|---------------|
| Frequency, GHz                  | 5             |
| Attenuation, dB/100ft [dB/100m] | 33.5 [109.91] |

##### Frequency 6

|                                 |               |
|---------------------------------|---------------|
| Frequency, GHz                  | 11            |
| Attenuation, dB/100ft [dB/100m] | 54.1 [177.49] |

#### Mechanical Specifications

##### Temperature

|                        |            |
|------------------------|------------|
| Operating Range, deg C | -20 to +80 |
|------------------------|------------|

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket RG223/U](#)



Flexible RG223 Coax Cable Double  
Shielded with Black PVC Jacket

TECHNICAL DATA SHEET

RG223/U

**Inner Conductor**

|                   |              |
|-------------------|--------------|
| Number of Strands | 1            |
| Material          | Copper       |
| Plating           | Silver       |
| Diameter, in [mm] | 0.035 [0.89] |

**Dielectric:**

|                   |              |
|-------------------|--------------|
| Type              | PE           |
| Diameter, in [mm] | 0.116 [2.95] |

**Shield:**

|                   |                            |
|-------------------|----------------------------|
| Number of         | 2                          |
| Material 1        | Silver Plated Copper Braid |
| Material 2        | Silver Plated Copper Braid |
| Diameter, in [mm] | 0.156 [3.96]               |

**Jacket:**

|                                       |              |
|---------------------------------------|--------------|
| Material                              | PVC          |
| Diameter, in [mm]                     | 0.21 [5.33]  |
| Color                                 | Black        |
| One Time Minimum Bend Radius, in [mm] | 0.21 [5.33]  |
| Repeated Minimum Bend Radius, in [mm] | 1 [25.4]     |
| Weight, lbs/ft [Kg/m]                 | 0.038 [0.06] |

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

|                 |            |
|-----------------|------------|
| RoHS Compliant  |            |
| REACH Compliant | 06/18/2012 |

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

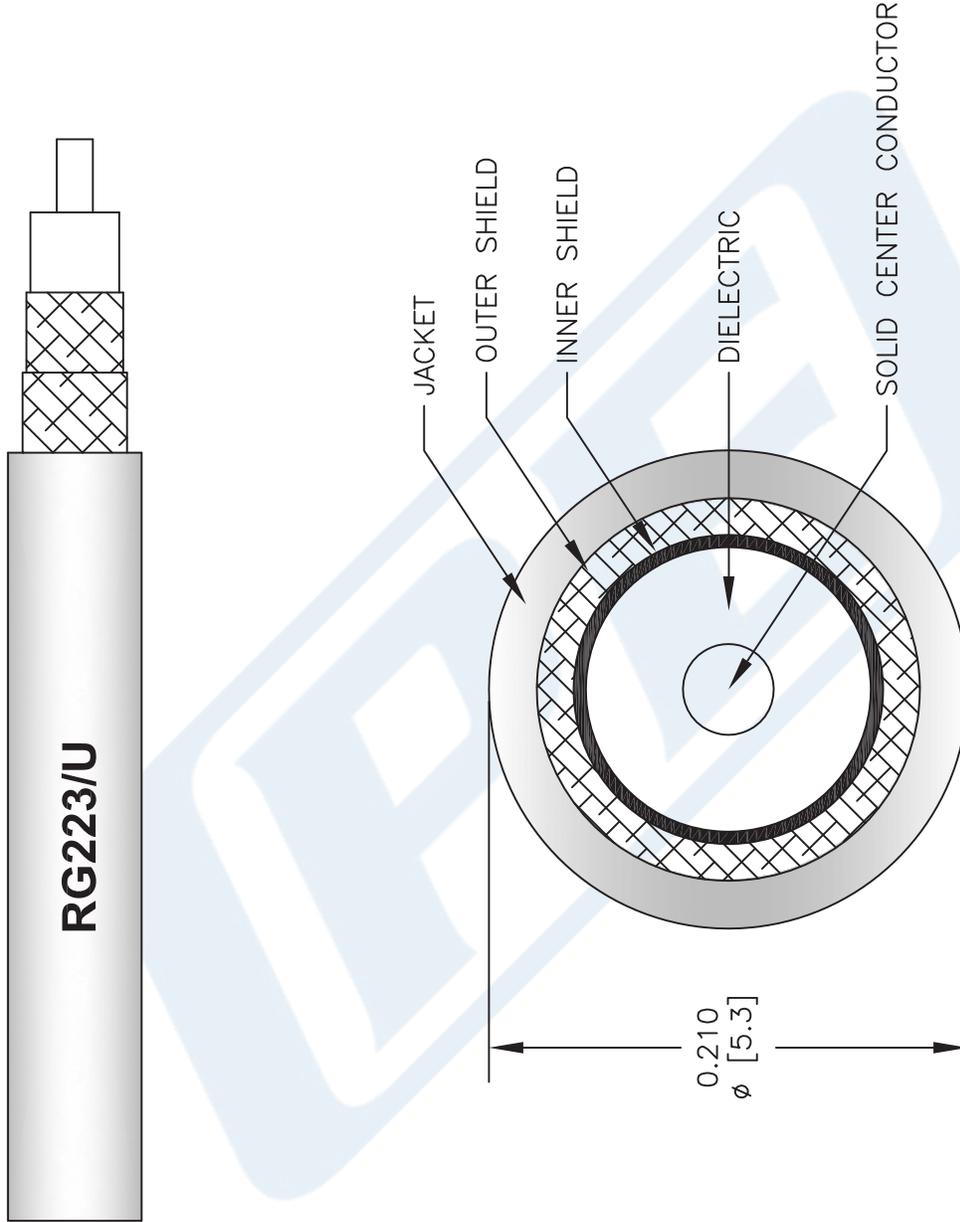
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URL: <http://www.pasternack.com/flexible-0.216-rg223-50-ohm-coax-cable-pvc-jacket-rg223-u-p.aspx>

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# RG223/U CAD Drawing

Flexible RG223 Coax Cable Double Shielded with Black PVC Jacket



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DWG TITLE  
**RG223/U**

FSCM NO. 53919

2233

SIZE A

SCALE N/A

CAD FILE 060508-B

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