



SMA Male to SSMC Plug Right Angle Cable  
150 cm Length Using RG188-DS Coax

**RF Cable Assemblies Technical Data Sheet**

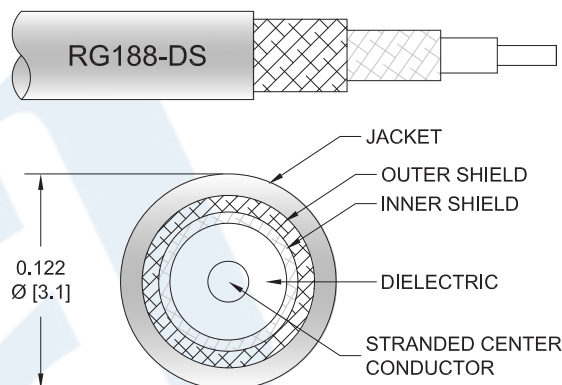
**PE3W09943-150CM**

**Configuration**

- Connector 1: SMA Male
- Connector 2: SSMC Plug Right Angle
- Cable Type: RG188-DS

**Features**

- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W09943-150CM SMA male to SSMC plug right angle 150 cm cable using RG188-DS 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 SSMC cable assembly has a male to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3W09943-150CM SMA male to SSMC plug cable assembly operates to 6 GHz. The right angle SSMC interface on the RG188-DS cable allows 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 to SSMC Plug Right Angle Cable 150 cm Length Using RG188-DS Coax PE3W09943-150CM](#)



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**Electrical Specifications**

| Description     | Minimum | Typical     | Maximum | Units        |
|-----------------|---------|-------------|---------|--------------|
| Frequency Range | DC      |             | 6       | GHz          |
| VSWR            |         |             | 1.4:1   |              |
| Capacitance     |         | 32 [104.99] |         | pF/ft [pF/m] |

**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4  | F5   | Units |
|-----------------------|------|------|------|-----|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5 | 6    | GHz   |
| Insertion Loss (Max.) | 1.04 | 1.28 | 1.78 | 2.7 | 4.73 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

**Mechanical Specifications**

**Cable Assembly**

|          |                      |
|----------|----------------------|
| Length*  | 59.05 in [149.99 cm] |
| Diameter | 0.313 in [7.95 mm]   |

**Cable**

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG188-DS                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver  |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | PTFE, White                |
| Jacket Diameter                      | 0.118 in [3 mm]            |

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**Connectors**

| Description                        | Connector 1        | Connector 2            |
|------------------------------------|--------------------|------------------------|
| Type                               | SMA Male           | SSMC Plug Right Angle  |
| Specification                      | MIL-STD-348A       |                        |
| Impedance                          | 50 Ohms            | 50 Ohms                |
| Mating Cycles                      |                    | 500                    |
| Contact Material and Plating       | Brass, Gold        | Beryllium Copper, Gold |
| Contact Plating Specification      | 50 µin minimum     | MIL-G-45204            |
| Dielectric Type                    | PTFE               | Teflon                 |
| Body Material and Plating          | Brass, Nickel      | Brass, Gold            |
| Body Plating Specification         | 100 µin minimum    | MIL-G-45204            |
| Coupling Nut Material and Plating  | Brass, Nickel      | Beryllium Copper, Gold |
| Coupling Nut Plating Specification | 100 µin minimum    | MIL-G-45204            |
| Hex Size                           | 5/16 inch          |                        |
| Torque                             | 3 in-lbs [0.34 Nm] | 1.75 in-lbs [0.2 Nm]   |

**Environmental Specifications**

**Temperature**

Operating Range -55 to +165 deg C

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

**Plotted and Other Data**

Notes:

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**PE3W09943-150CM**

**How to Order**

Part Number Configuration:

**PE3W09943**

**- xx**

**uu**

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

Example: PE3W09943-12 = 12 inches long cable  
PE3W09943-100cm = 100 cm long cable

SMA Male to SSMC Plug Right Angle Cable 150 cm Length Using RG188-DS 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: [SMA Male to SSMC Plug Right Angle Cable 150 cm Length Using RG188-DS Coax PE3W09943-150CM](#)

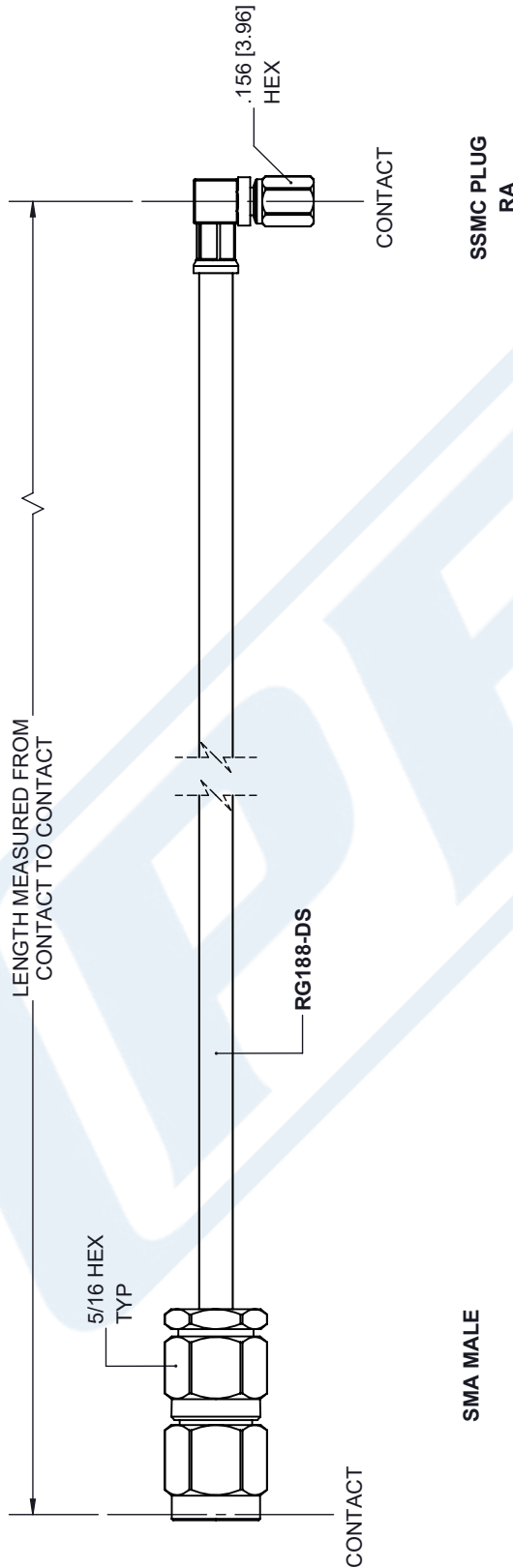
URL:

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.

# PE3W09943-150CM CAD Drawing

SMA Male to SSMC Plug Right Angle Cable 150 cm Length Using RG188-DS Coax

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 10/19/2020 | S. ELLIS |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                                                                    |             |           |        |             |         |        |      |               |         |                  |             |                             |  |  |  |                                         |  |  |  |                                            |  |  |  |                                             |  |  |  |                           |  |  |  |                                                                                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|-----------|--------|-------------|---------|--------|------|---------------|---------|------------------|-------------|-----------------------------|--|--|--|-----------------------------------------|--|--|--|--------------------------------------------|--|--|--|---------------------------------------------|--|--|--|---------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>UNLESS OTHERWISE SPECIFIED<br/>LEADING DIMENSIONS ARE INCHES<br/>DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="1"> <tr> <td>X = ± .2</td><td>[ .008 ]</td><td>FRACTIONS</td><td>± 1/32</td></tr> <tr> <td>.XX = ± .02</td><td>[ .51 ]</td><td>ANGLES</td><td>± 1°</td></tr> <tr> <td>.XXX = ± .005</td><td>[ .13 ]</td><td>CABLE LENGTH (L)</td><td>TOLERANCES:</td></tr> <tr> <td colspan="4">L ≤ 12 [305] = +1 [25] / -0</td></tr> <tr> <td colspan="4">12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0</td></tr> <tr> <td colspan="4">60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</td></tr> <tr> <td colspan="4">120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</td></tr> <tr> <td colspan="4">300 [7620] &lt; L = +5% / -0</td></tr> </table> <p>ALL DIMENSIONS SHOWN<br/>ARE FOR REFERENCE ONLY.</p> |          | X = ± .2                                                                                           | [ .008 ]    | FRACTIONS | ± 1/32 | .XX = ± .02 | [ .51 ] | ANGLES | ± 1° | .XXX = ± .005 | [ .13 ] | 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% / -0 |  |  |  | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND<br/>DESIGN IN THIS DOCUMENT<br/>IS THE PROPERTY OF<br/>PASTERNAK CORPORATION<br/>ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |  |
| X = ± .2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [ .008 ] | FRACTIONS                                                                                          | ± 1/32      |           |        |             |         |        |      |               |         |                  |             |                             |  |  |  |                                         |  |  |  |                                            |  |  |  |                                             |  |  |  |                           |  |  |  |                                                                                                                                                                                                     |  |
| .XX = ± .02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | [ .51 ]  | ANGLES                                                                                             | ± 1°        |           |        |             |         |        |      |               |         |                  |             |                             |  |  |  |                                         |  |  |  |                                            |  |  |  |                                             |  |  |  |                           |  |  |  |                                                                                                                                                                                                     |  |
| .XXX = ± .005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | [ .13 ]  | 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% / -0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                                                    |             |           |        |             |         |        |      |               |         |                  |             |                             |  |  |  |                                         |  |  |  |                                            |  |  |  |                                             |  |  |  |                           |  |  |  |                                                                                                                                                                                                     |  |
| <p><b>PE PASTERNAK</b><br/>an INFINITE brand</p> <p>Pasternack Enterprises, Inc.<br/>P.O. Box 16759, Irvine, CA 92623.<br/>Phone: 1.949.261.1920   1.866.727.8376<br/>Fax: 1.949.261.7451<br/>Website: www.pasternack.com<br/>E-mail: sales@pasternack.com</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | <p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PE3W09943</p> <p>REV A</p> |             |           |        |             |         |        |      |               |         |                  |             |                             |  |  |  |                                         |  |  |  |                                            |  |  |  |                                             |  |  |  |                           |  |  |  |                                                                                                                                                                                                     |  |

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