



SMA Male to MMCX Plug Right Angle Cable 150 CM  
Length Using RG188-DS Coax with HeatShrink

**RF Cable Assemblies Technical Data Sheet**

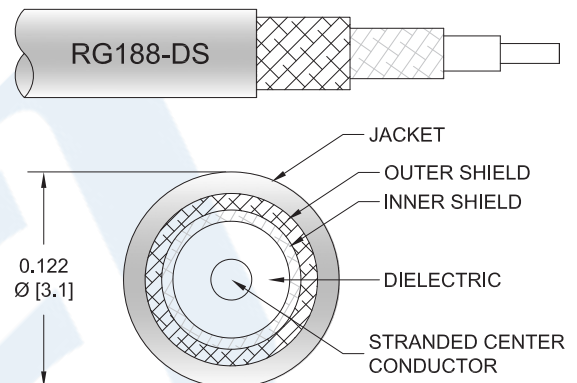
**PE3W06223/HS-150CM**

**Configuration**

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

**Features**

- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W06223/HS-150CM SMA male to MMCX 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 MMCX cable assembly has a male to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3W06223/HS-150CM SMA male to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX 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 MMCX Plug Right Angle Cable 150 CM Length Using RG188-DS Coax with HeatShrink PE3W06223/HS-150CM](#)



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**PE3W06223/HS-150CM**

### Electrical Specifications

| Description                          | Minimum | Typical     | Maximum | Units        |
|--------------------------------------|---------|-------------|---------|--------------|
| Frequency Range                      | DC      |             | 6       | GHz          |
| VSWR                                 |         |             | 1.4:1   |              |
| Capacitance                          |         | 32 [104.99] |         | pF/ft [pF/m] |
| Operating Voltage (AC)               |         |             | 250     | Vrms         |
| Dielectric Withstanding Voltage (AC) |         |             | 2,000   | Vrms         |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5  | 6    | GHz   |
| Insertion Loss (Typ.) | 0.97 | 1.22 | 1.73 | 2.63 | 4.67 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

|          |                      |
|----------|----------------------|
| Length*  | 59.06 in [150.01 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]            |

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 MMCX Plug Right Angle Cable 150 CM Length Using RG188-DS Coax with HeatShrink PE3W06223/HS-150CM](#)



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**Connectors**

| Description                        | Connector 1        | Connector 2           |
|------------------------------------|--------------------|-----------------------|
| Type                               | SMA Male           | MMCX Plug Right Angle |
| Specification                      | MIL-STD-348A       | BS EN 122340          |
| Impedance                          | 50 Ohms            | 50 Ohms               |
| Contact Material and Plating       | Brass, Gold        | Brass, Gold           |
| Contact Plating Specification      | 50 µin minimum     | 30µ in. minimum       |
| Dielectric Type                    | PTFE               | Teflon                |
| Body Material and Plating          | Brass, Nickel      | Brass, Gold           |
| Body Plating Specification         | 100 µin minimum    | 3µ in. minimum        |
| Coupling Nut Material and Plating  | Brass, Nickel      |                       |
| Coupling Nut Plating Specification | 100 µin minimum    |                       |
| Hex Size                           | 5/16 inch          |                       |
| Torque                             | 3 in-lbs [0.34 Nm] |                       |

**Environmental Specifications**

**Temperature**

Operating Range -55 to +155 deg C

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

**Plotted and Other Data**

Notes:

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**PE3W06223/HS-150CM**

**How to Order**

Part Number Configuration:

**PE3W06223/HS**

**- xx**

**uu**

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

Example: PE3W06223/HS-12 = 12 inches long cable  
PE3W06223/HS-100cm = 100 cm long cable

SMA Male to MMCX Plug Right Angle Cable 150 CM Length Using RG188-DS Coax with HeatShrink 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 MMCX Plug Right Angle Cable 150 CM Length Using RG188-DS Coax with HeatShrink PE3W06223/HS-150CM](https://www.pasternack.com/sma-male-mmcx-plug-right-angle-cable-150cm-length-using-rg188-ds-coax-with-heatshrink-pe3w06223-hs-150cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-mmcx-plug-rg188-ds-cable-assembly-pe3w06223-hs-150cm-p.aspx>

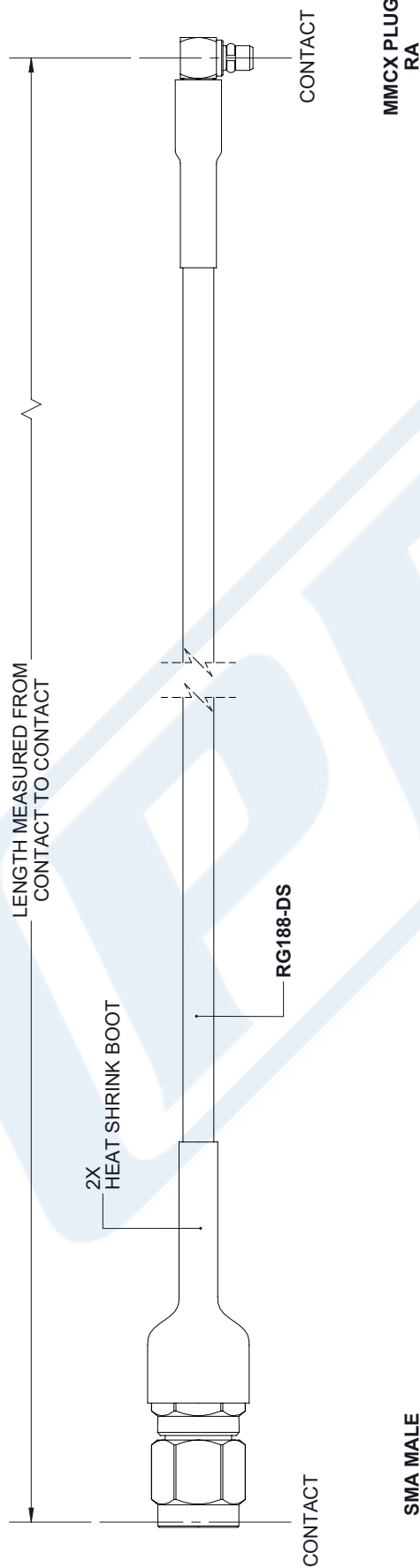
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE3W06223/HS-150CM CAD Drawing

## SMA Male to MMCX Plug Right Angle Cable 150 CM Length

### Using RG188-DS Coax with HeatShrink

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 4/13/2021 | SELLIS   |



|                                                                                                  |              |
|--------------------------------------------------------------------------------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |              |
| TOLERANCES:                                                                                      |              |
| .X = ± .2                                                                                        | [5.08]       |
| .XX = ± .02                                                                                      | [.51]        |
| .XXX = ± .005                                                                                    | [.13]        |
| ANGLES ± 1°                                                                                      |              |
| CABLE LENGTH (L) TOLERANCES:                                                                     |              |
| L ≤ 12 [305]                                                                                     | ± .1 [25]    |
| 12 [305] < L ≤ 60 [1524]                                                                         | ± .2 [51]    |
| 60 [1524] < L ≤ 120 [3048]                                                                       | ± .4 [102]   |
| 120 [3048] < L ≤ 300 [7620]                                                                      | ± .6 [152]   |
| 300 [7620] < L                                                                                   | ± .8% L / -0 |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |              |

|                                                                                                                                                                                                                                                                                                                                  |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
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| SIZE                                                                                                                                                                                                                                                                                                                             | A            |
| CAGE CODE                                                                                                                                                                                                                                                                                                                        | 53919        |
| DRAWN BY                                                                                                                                                                                                                                                                                                                         | K.DANG       |
| ITEM NO.                                                                                                                                                                                                                                                                                                                         | PE3W06223/HS |
| REV                                                                                                                                                                                                                                                                                                                              | A            |

|                                                                                                                                                                                                           |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| THIRD-ANGLE PROJECTION                                                                                                                                                                                    |        |
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| SHEET                                                                                                                                                                                                     | 1 OF 1 |
| SCALE                                                                                                                                                                                                     | N/A    |