



## SSMC Plug Right Angle to SMA Male Cable Using RG188-DS Coax

### RF Cable Assemblies Technical Data Sheet

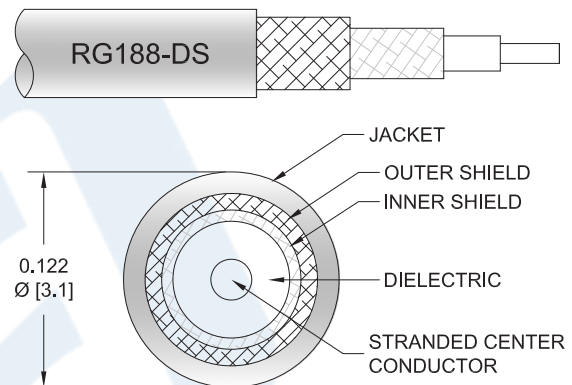
PE3W04994

#### Configuration

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

#### Features

- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W04994 SSMC plug right angle to SMA male 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 SSMC to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG188-DS coax. The PE3W04994 SSMC plug to SMA male 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: [SSMC Plug Right Angle to SMA Male Cable Using RG188-DS Coax PE3W04994](#)



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**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.16	0.3	0.34	0.59	0.84	dB/ft
	0.52	0.98	1.12	1.94	2.76	

Electrical Specification Notes:

Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.3dB of connector loss

**Mechanical Specifications**

**Cable Assembly**

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: [SSMC Plug Right Angle to SMA Male Cable Using RG188-DS Coax PE3W04994](#)



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**Connectors**

Description	Connector 1	Connector 2
Type	SSMC Plug Right Angle	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 μin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	MIL-G-45204	100 μin minimum
Coupling Nut Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Coupling Nut Plating Specification	MIL-G-45204	100 μin minimum
Hex Size		5/16 inch
Torque	1.75 in-lbs [0.2 Nm]	3 in-lbs [0.34 Nm]

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C

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

**Plotted and Other Data**

Notes:

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## SSMC Plug Right Angle to SMA Male Cable Using RG188-DS Coax

### RF Cable Assemblies Technical Data Sheet

PE3W04994

#### How to Order

Part Number Configuration:

**PE3W04994**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W04994-12 = 12 inches long cable  
PE3W04994-100cm = 100 cm long cable

SSMC Plug Right Angle to SMA Male Cable 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: [SSMC Plug Right Angle to SMA Male Cable Using RG188-DS Coax PE3W04994](#)

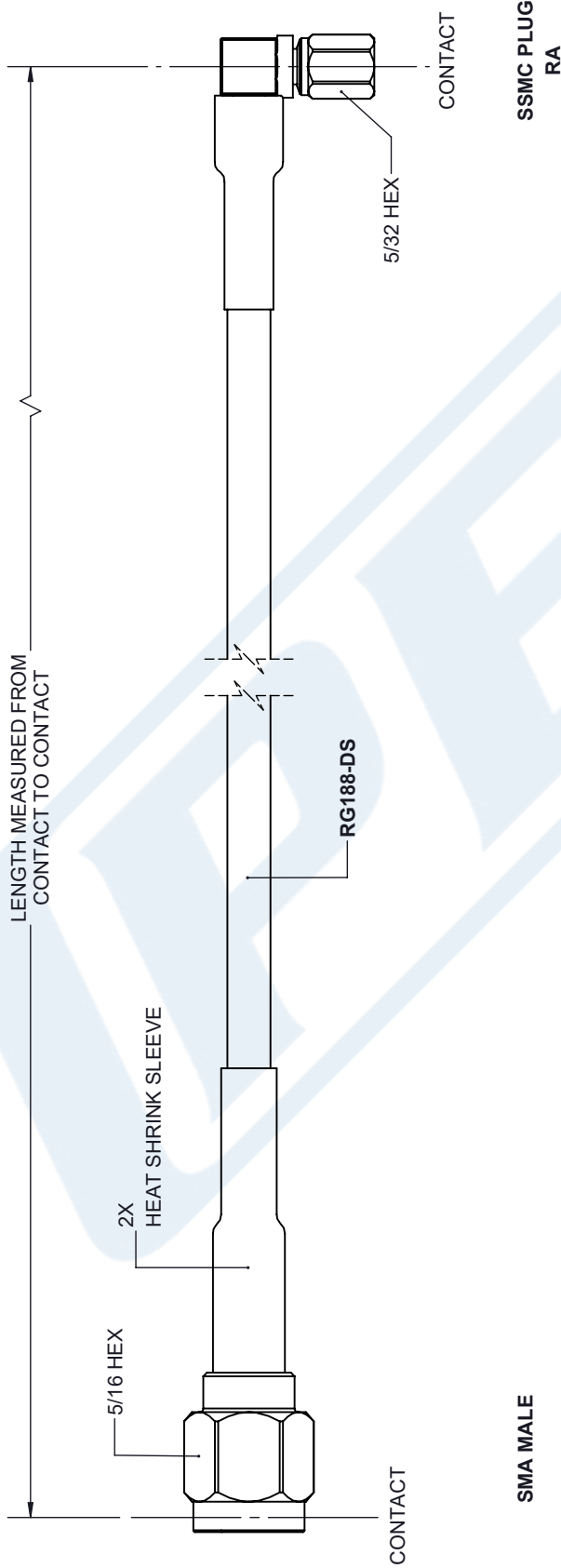
URL: <https://www.pasternack.com/ssmc-plug-sma-male-rg188-ds-cable-assembly-pe3w04994-p.aspx>

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.

# PE3W04994 CAD Drawing

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

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE3W04994	9/8/2020	S. ELLIS



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [ .008 ]    FRACTIONS ± 1/32                  .XX = ±.02 [ .51 ]    ANGLES ± 1°                  .XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH (L): TOLERANCES:                  L ≤ 12 [305] = +1 [25] / -0                  12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0                  60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0                  120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0                  300 [7620] &lt; L = +5% / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p>	<p>REV A</p>

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