

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



### RF Cable Assemblies Technical Data Sheet

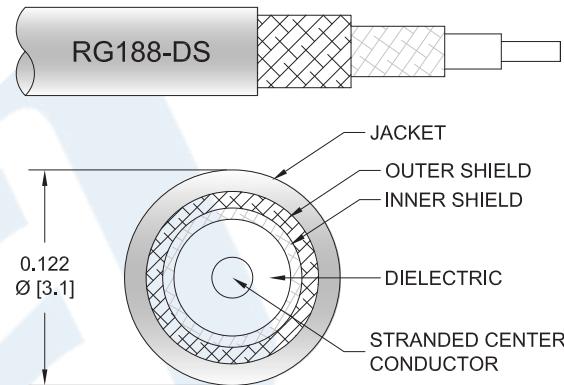
PE3W09943

#### 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 SMA male to SSMC plug right angle 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 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 Using RG188-DS Coax PE3W09943](#)

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



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**PE3W09943**

#### 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.)	0.15	0.2	0.3	0.48	0.9	dB/ft
	0.49	0.66	0.98	1.57	2.95	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

#### 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]

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

### RF Cable Assemblies Technical Data Sheet

**PE3W09943**

#### 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 $\mu$ in minimum	MIL-G-45204
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	100 $\mu$ in minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Coupling Nut Plating Specification	100 $\mu$ in 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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SMA Male to SSMC Plug Right Angle  
Cable Using RG188-DS Coax



RF Cable Assemblies Technical Data Sheet

PE3W09943

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 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 Using RG188-DS Coax PE3W09943](#)

URL: <https://www.pasternack.com/sma-male-ssmc-plug-rg188-ds-cable-assembly-pe3w09943-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.

# PE3W09943 CAD Drawing

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

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

SMA MALE

SSMC PLUG  
RA

**PASTERNACK**  
an INFINITE® brand

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E-mail: [sales@pasternack.com](mailto:sales@pasternack.com)

SIZE A 53919 CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE3W09943

REV A

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

**TOLERANCES:**

$X = \pm .2$	$[.05]$	<b>FRACTIONS</b>
$XX = \pm .02$	$[.51]$	$\pm 1/32$
$XXX = \pm .005$	$[.13]$	<b>ANGLES</b> $\pm 1^\circ$

**CABLE LENGTH (L) TOLERANCES:**

$L \leq 12 [305] = +1 [25] / -0$	$L \leq 60 [1524] = +2 [51] / -0$	$L \leq 12 [305] < L \leq 60 [1524] = +4 [102] / -0$
$60 [1524] < L \leq 120 [3048] = +6 [152] / -0$	$120 [3048] < L \leq 300 [7620] = +8 [203] / -0$	$300 [7620] < L = +5\% L / -0$

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT  
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SHEET 1 OF 1

SCALE N/A