



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

RF Cable Assemblies Technical Data Sheet

PE3W08402-50CM

Configuration

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

Features

- Max Frequency 10 GHz
- Double Shielded
- PTFE Jacket

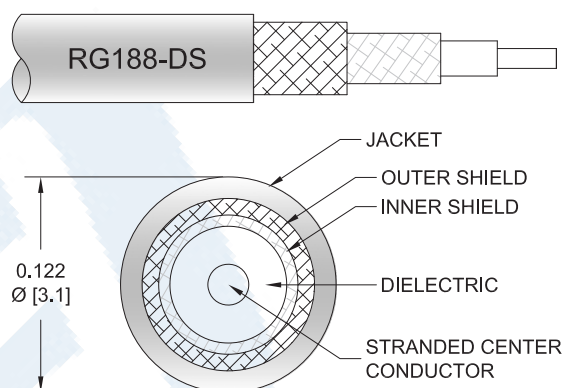
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08402-50CM SMA male to SSMC plug right angle 50 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 PE3W08402-50CM SMA male to SSMC plug cable assembly operates to 10 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 50 cm Using RG188-DS Coax PE3W08402-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.72	0.88	1.18	1.67	2.53	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 is estimated as 0.1 dB per SMA male connector and 0.3 dB per SSMC plug right angle connector.

Mechanical Specifications

Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.315 in [8 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	30 µin minimum	MIL-G-45204
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating	Brass, Nickel	Brass, Gold
Outer Conductor Plating Specification		MIL-G-45204
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]
Seal Gasket Material	Silicone	

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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How to Order

Part Number Configuration:

PE3W08402

- **xx**

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

Example: PE3W08402-12 = 12 inches long cable
PE3W08402-100cm = 100 cm long cable

SMA Male to SSMC Plug Right Angle Cable 50 cm 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 50 cm Using RG188-DS Coax PE3W08402-50CM](https://www.pasternack.com/sma-male-ssmc-plug-rg188-ds-cable-assembly-pe3w08402-50cm-p.aspx)

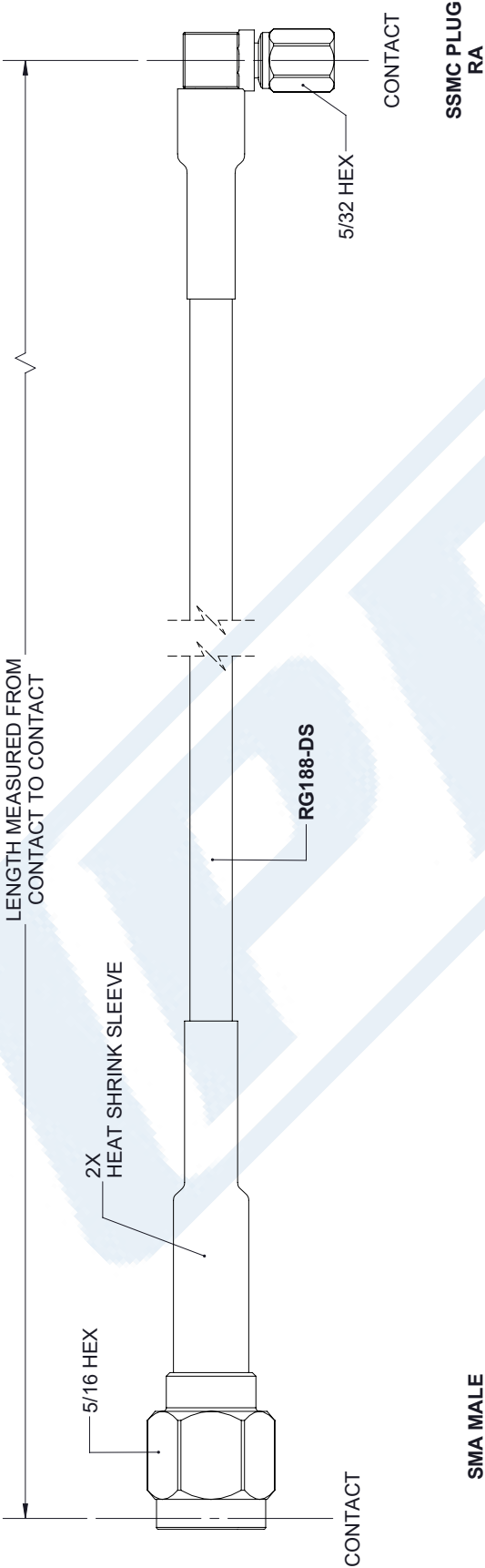
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE3W08402-50CM CAD Drawing

SMA Male to SSMC Plug Right Angle Cable 50 cm Using RG188-DS Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/28/2020	SELLIS



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

TOLERANCES:

.X = ± .2	[5.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

12 [305]	< L ≤ 60 [1524]	= +1 [25] / -0
60 [1524]	< L ≤ 120 [3048]	= +4 [102] / -0
120 [3048]	< L ≤ 300 [7620]	= +6 [152] / -0
300 [7620] < L = +5% / -0		

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI® brand

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THIRD-ANGLE PROJECTION

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DESIGN IN THIS DOCUMENT
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SHEET	1	OF	1
SCALE	N/A		
REV	A		

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PE3W08402

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