



SMA Male to MMCX Plug Right Angle Cable 50 CM
Length Using RG188-DS Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W06223/HS-50CM

Configuration

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

Features

- Max Frequency 6 GHz
- Double Shielded
- PTFE Jacket

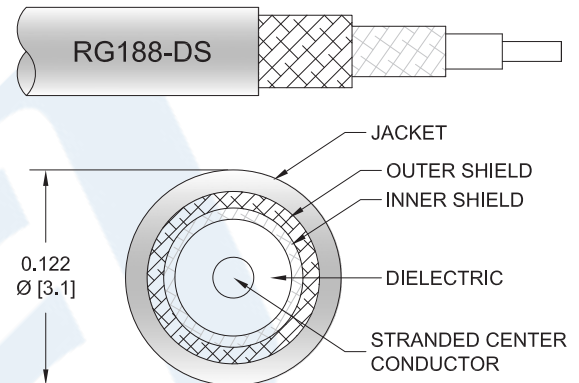
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06223/HS-50CM SMA male to MMCX 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 MMCX cable assembly has a male to plug gender configuration with 50 ohm flexible RG188-DS coax. The PE3W06223/HS-50CM 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 50 CM Length Using RG188-DS Coax with Heat-Shrink PE3W06223/HS-50CM](#)



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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]
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.)	0.49	0.58	0.75	1.05	1.73	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*	19.68 in [499.87 mm]
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	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-50CM

How to Order

Part Number Configuration:

PE3W06223/HS

- xx

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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 50 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.

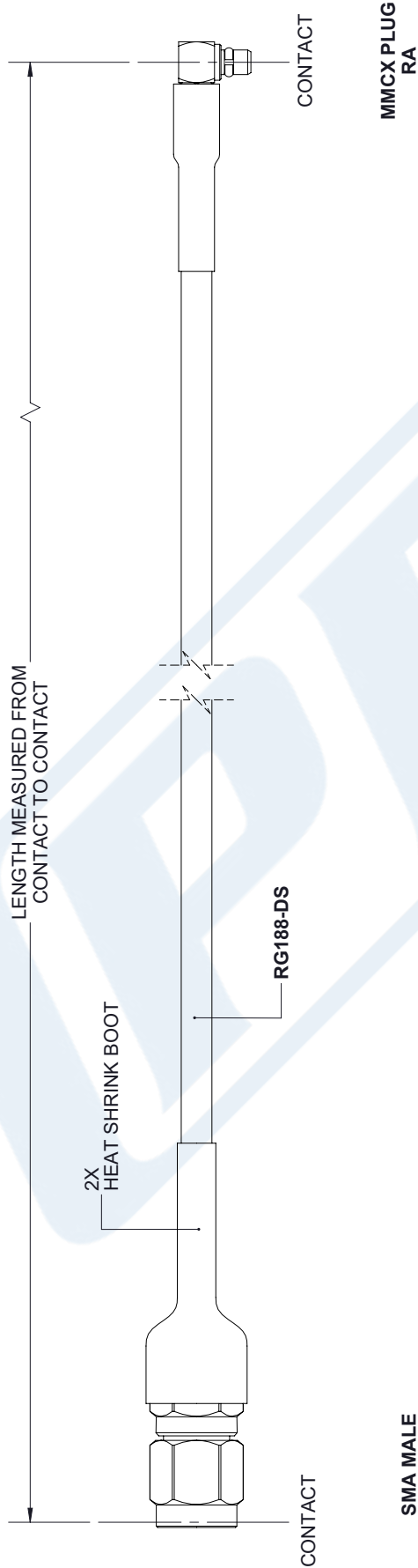
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to MMCX Plug Right Angle Cable 50 CM Length Using RG188-DS Coax with HeatShrink PE3W06223/HS-50CM](https://www.pasternack.com/sma-male-mmcx-plug-right-angle-cable-50cm-length-using-rg188-ds-coax-with-heatshrink-pe3w06223-hs-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-mmcx-plug-right-angle-cable-50cm-length-using-rg188-ds-coax-with-heatshrink-pe3w06223-hs-50cm-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-50CM CAD Drawing
SMA Male to MMCX Plug Right Angle Cable 50 CM Length
Using RG188-DS Coax with HeatShrink

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



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
.X = ± .2	[5.08]
.XX = ± .02	[.51]
.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 ≤ 7620 = +5% / -0
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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

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