

MMCX Plug Right Angle to SMA Male Right Angle Cable Using RG188-DS Coax with 90 Deg. Clock

PE3W05023/PH90

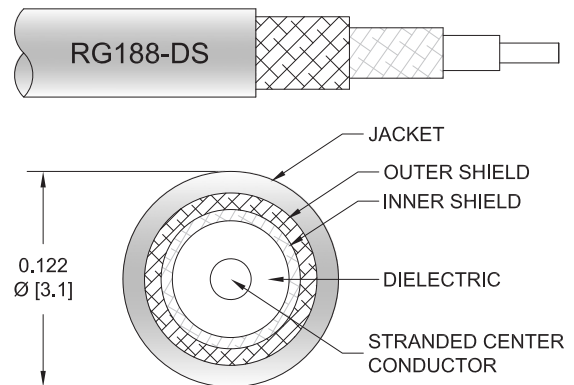


Configuration

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

Features

- Max Frequency 3 GHz
- Double Shielded
- PTFE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05023/PH90 MMCX plug right angle to SMA male 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 MMCX to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG188-DS coax. The PE3W05023/PH90 MMCX plug to SMA male cable assembly operates to 3 GHz. The right angle MMCX and right angle SMA interfaces on the RG188-DS cable allow 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3W05023/PH90	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.146	0.197	0.3	0.453	dB/ft	
			0.38	0.48	0.65	0.99	1.49	dB/m	
PE3W05023/PH90-12	12 inch	Insertion Loss (Typ.)	0.52	0.55	0.6	0.7	0.86	dB	0.038
PE3W05023/PH90-24	24 inch	Insertion Loss (Typ.)	0.63	0.7	0.8	1	1.31	dB	0.053
PE3W05023/PH90-36	36 inch	Insertion Loss (Typ.)	0.75	0.84	1	1.3	1.76	dB	0.068
PE3W05023/PH90-48	48 inch	Insertion Loss (Typ.)	0.86	0.99	1.19	1.6	2.22	dB	0.083
PE3W05023/PH90-60	60 inch	Insertion Loss (Typ.)	0.98	1.13	1.39	1.9	2.67	dB	0.098

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.038 pounds
Additional Weight per Inch:	0.00125 pounds

Mechanical Specifications

Cable Assembly

Weight	0.038 lbs [17.24 g]
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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	MMCX Plug Right Angle	SMA Male Right Angle
Specification	BS EN 122340	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30µ in. minimum	50 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3µ in. minimum	100 µin 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

Operating Range Temperature -55 to +155 deg C

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

Plotted and Other Data

Notes:

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PE3W05023/PH90

Typical Performance Data

How to Order

Part Number Configuration: **PE3W05023/PH90** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

Example: PE3W05023/PH90-12 = 12 inches long cable
PE3W05023/PH90-100cm = 100 cm long cable

MMCX Plug Right Angle to SMA Male Right Angle Cable Using RG188-DS Coax with 90 Deg. Clock 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: [MMCX Plug Right Angle to SMA Male Right Angle Cable Using RG188-DS Coax with 90 Deg. Clock PE3W05023/PH90](https://www.pasternack.com/mmcx-plug-right-angle-to-sma-male-cable-using-rg188-ds-with-90-deg.-clock-pe3w05023-ph90-p.aspx)

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The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W05023/PH90 CAD Drawing

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