

75 Ohm Push-On MCX Plug Right Angle to 75 Ohm MCX Plug Cable Using 75 Ohm RG179 Coax



PE3W03218

Configuration

- Connector 1: Push-On MCX Plug Right Angle
- Connector 2: MCX Plug
- Cable Type: RG179
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03218 75 ohm MCX plug push-on right angle to 75 ohm MCX plug cable using 75 ohm RG179 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 MCX to MCX cable assembly has a plug to plug gender configuration with 75 ohm flexible RG179 coax. The PE3W03218 MCX plug to MCX plug cable assembly operates to 1 GHz. The right angle MCX interface on the RG179 cable allows for easier connections in tight spaces.

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		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		19.4 [63.65]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE3W03218	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.14	0.203	0.3	dB/ft	
			0.3	0.45	0.67	0.99	dB/m	
PE3W03218-12	12 inch	Insertion Loss (Typ.)	0.39	0.44	0.51	0.6	dB	0.023
PE3W03218-24	24 inch	Insertion Loss (Typ.)	0.48	0.58	0.71	0.9	dB	0.032
PE3W03218-36	36 inch	Insertion Loss (Typ.)	0.57	0.72	0.91	1.2	dB	0.041
PE3W03218-48	48 inch	Insertion Loss (Typ.)	0.66	0.85	1.12	1.5	dB	0.05
PE3W03218-72	72 inch	Insertion Loss (Typ.)	0.84	1.13	1.52	2.1	dB	0.068

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:	0.1 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.023 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight	0.023 lbs [10.43 g]
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Cable

Cable Type	RG179
Impedance	75 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.1 in [2.54 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Plug Right Angle	MCX Plug
Specification	MIL-C-39012	
Impedance	75 Ohms	75 Ohms
Configuration	Right Angle	Straight
Connection Method	Push-On	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3 µin minimum

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W03218

Typical Performance Data

How to Order

Part Number Configuration: **PE3W03218** **- xx** **uu**

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

Length
Base Number

Example: PE3W03218-12 = 12 inches long cable
PE3W03218-100cm = 100 cm long cable

75 Ohm Push-On MCX Plug Right Angle to 75 Ohm MCX Plug Cable Using 75 Ohm RG179 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: [75 Ohm Push-On MCX Plug Right Angle to 75 Ohm MCX Plug Cable Using 75 Ohm RG179 Coax PE3W03218](https://www.pasternack.com/75-ohm-push-on-mcx-plug-right-angle-to-75-ohm-mcx-plug-cable-using-rg179-pe3w03218-p.aspx)

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PE3W03218 CAD Drawing

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