



## 75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG179B/U Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W09255**

#### Configuration

- Connector 1: MCX Plug
- Connector 2: F Male
- Cable Type: RG179

#### Features

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

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W09255 75 ohm MCX plug to 75 ohm type F male 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 type F cable assembly has a plug to male gender configuration with 75 ohm flexible RG179 coax. The PE3W09255 MCX plug to type F male cable assembly operates to 1 GHz.

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: [75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG179B/U Coax PE3W09255](#)



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#### 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]
Operating Voltage (AC)			250	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.09	0.137	0.203	0.3		dB/ft
	0.3	0.45	0.67	0.98		dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

#### Mechanical Specifications

##### Cable Assembly

###### 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	F Male
Impedance	75 Ohms	75 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 $\mu$ in minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3 $\mu$ in minimum	
Coupling Nut Material and Plating		Brass, Nickel
Hex Size		7/16 inch
Torque		12 in-lbs [1.36 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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**PE3W09255**

#### How to Order

Part Number Configuration:

**PE3W09255**

- **xx**

**uu**

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

Example: PE3W09255-12 = 12 inches long cable  
PE3W09255-100cm = 100 cm long cable

75 Ohm MCX Plug to 75 Ohm F Male Cable Using 75 Ohm RG179B/U 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.

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URL:

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.

# PE3W09255 CAD Drawing

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