

## MCX Plug Right Angle to SMA Female Bulkhead Low Loss Cable Using PE-P195 Coax



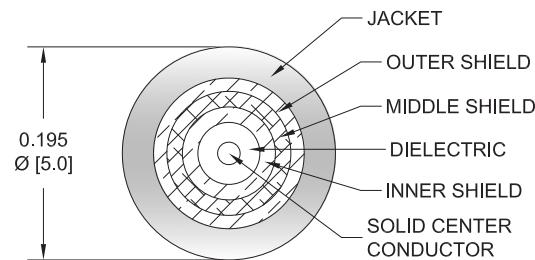
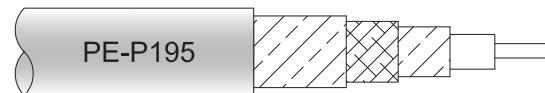
### PE3W09701

#### Configuration

- Connector 1: MCX Plug Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-P195
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W09701 MCX plug right angle to SMA female bulkhead cable using PE-P195 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 SMA cable assembly has a plug to female gender configuration with 50 ohm flexible PE-P195 coax. The PE3W09701 MCX plug to SMA female cable assembly operates to 3 GHz. The right angle MCX interface on the PE-P195 cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The triple 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	
Velocity of Propagation	70			%
Capacitance	29 [95.14]			pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz

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**PE3W09701**

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.)	0.039	0.057	0.088	0.125	0.22	dB/ft
	0.13	0.19	0.29	0.41	0.72	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMA female connector and 0.2 dB for the MCX plug connector.

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.065 lbs [29.48 g]

#### Cable

Cable Type	PE-P195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.195 in [4.95 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

### Connectors

Description	Connector 1	Connector 2
Type	MCX Plug Right Angle	SMA Female Bulkhead
Specification	CECC 22220	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold over Nickel over Copper
Contact Plating Specification	30 $\mu$ in minimum	
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Gold over Nickel over Copper
Body Plating Specification	100 $\mu$ in minimum	

### Environmental Specifications

Operating Range Temperature	-55 to +155 deg C
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### PE3W09701

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

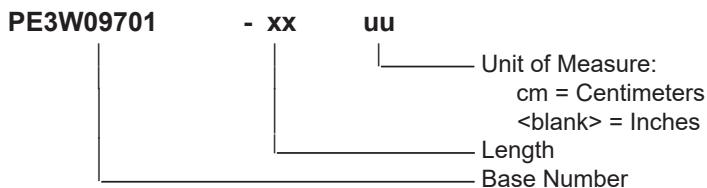
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3W09701-12 = 12 inches long cable  
PE3W09701-100cm = 100 cm long cable

MCX Plug Right Angle to SMA Female Bulkhead Low Loss Cable Using PE-P195 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: [MCX Plug Right Angle to SMA Female Bulkhead Low Loss Cable Using PE-P195 Coax PE3W09701](#)

URL: <https://www.pasternack.com/mcx-plug-right-angle-to-sma-female-bulkhead-low-loss-cable-using-pe-p195-pe3w09701-p.aspx>

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.

# PE3W09701 CAD Drawing

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