

MCX Plug to SMA Female Bulkhead Cable Using PE-SR405FLJ Coax



PE3W10191

Configuration

- Connector 1: MCX Plug
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10191 MCX plug to SMA female bulkhead cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack MCX to SMA cable assembly has a plug to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W10191 MCX plug to SMA female cable assembly operates to 6 GHz. 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.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			335	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W10191	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.23	0.346	0.549	0.601	dB/ft	
			0.5	0.74	1.14	1.81	1.98	dB/m	
PE3W10191-6	6 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.48	0.51	dB	0.021
PE3W10191-9	9 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.62	0.66	dB	0.025
PE3W10191-12	12 inch	Insertion Loss (Typ.)	0.35	0.43	0.55	0.75	0.81	dB	0.028
PE3W10191-18	18 inch	Insertion Loss (Typ.)	0.43	0.54	0.72	1.03	1.11	dB	0.036
PE3W10191-24	24 inch	Insertion Loss (Typ.)	0.5	0.65	0.9	1.3	1.41	dB	0.043

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:	0.1 dB
Base Weight:	0.028 pounds
Additional Weight per Inch:	0.00117 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.028 lbs [12.7 g]

Cable

Cable Type	PE-SR405FLJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	MCX Plug	SMA Female Bulkhead
Specification	MIL-C-39012	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold over Nickel	Stainless Steel, Gold
Body Plating Specification	10 µin minimum	30 µin minimum

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W10191

Typical Performance Data

How to Order

Part Number Configuration:

PE3W10191

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

Length
Base Number

Example: PE3W10191-12 = 12 inches long cable
PE3W10191-100cm = 100 cm long cable

MCX Plug to SMA Female Bulkhead Cable Using PE-SR405FLJ 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 to SMA Female Bulkhead Cable Using PE-SR405FLJ Coax PE3W10191](#)

URL: <https://www.pasternack.com/mcx-plug-to-sma-female-bulkhead-cable-using-pe-sr405flj-pe3w10191-p.aspx>

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PE3W10191 CAD Drawing
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