

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



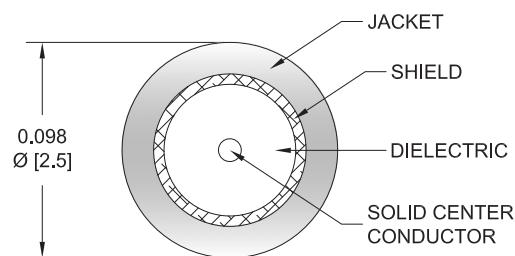
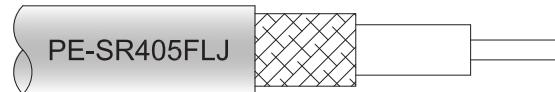
### PE3C3002

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: MCX Plug
- 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 PE3C3002 SMA female bulkhead to MCX plug 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 SMA to MCX cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C3002 SMA female to MCX plug 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]

#### Specifications by Frequency

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### PE3C3002

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C3002	Custom Lengths Available	Insertion Loss (Typ.)	0.075 0.25	0.15 0.5	0.225 0.74	0.347 1.14	0.602 1.98	dB/ft dB/m	
PE3C3002-6	6 inch	Insertion Loss (Typ.)	0.74	0.78	0.82	0.88	1.01	dB	0.016
PE3C3002-9	9 inch	Insertion Loss (Typ.)	0.76	0.82	0.87	0.97	1.16	dB	0.02
PE3C3002-12	12 inch	Insertion Loss (Typ.)	0.78	0.85	0.93	1.05	1.31	dB	0.023
PE3C3002-18	18 inch	Insertion Loss (Typ.)	0.82	0.93	1.04	1.23	1.61	dB	0.031
PE3C3002-24	24 inch	Insertion Loss (Typ.)	0.85	1	1.15	1.4	1.91	dB	0.038

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: 0.6 dB  
Loss due to Connector 2: 0.1 dB  
Base Weight: 0.023 pounds  
Additional Weight per Inch: 0.00117 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.023 lbs [10.43 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  
Shield Layer 1 Tinned Copper Braid  
Jacket Material FEP, Black  
Jacket Diameter 0.098 in [2.49 mm]  
One Time Minimum Bend Radius 0.236 in [5.99 mm]  
Repeated Minimum Bend Radius 0.787 in [19.99 mm]

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#### Connectors

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

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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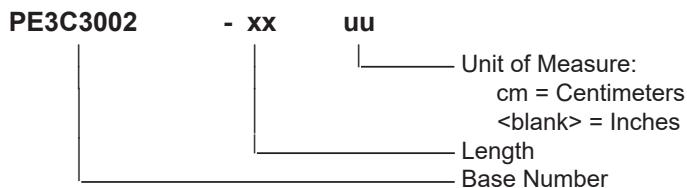


### PE3C3002

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C3002-12 = 12 inches long cable  
PE3C3002-100cm = 100 cm long cable

SMA Female Bulkhead to MCX Plug 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: [SMA Female Bulkhead to MCX Plug Cable Using PE-SR405FLJ Coax PE3C3002](#)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-mcx-plug-cable-using-pe-sr405flj-pe3c3002-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.

PE3C3002 CAD Drawing

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