

Push-On SMP Female to SMA Male Cable  
50 cm Length Using PE-SR405FL Coax



**RF Cable Assemblies Technical Data Sheet**

**PE3W07044-50CM**

**Configuration**

- Connector 1: Push-OnSMP Female
- Connector 2: SMA Male
- Cable Type: PE-SR405FL

**Features**

- Max Frequency 8 GHz
- 69.5% Phase Velocity

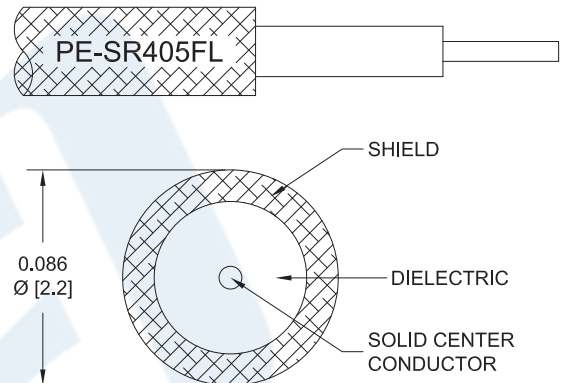
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W07044-50CM SMP female push-on to SMA male 50 cm cable using PE-SR405FL 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 SMP to SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W07044-50CM SMP female to SMA male cable assembly operates to 8 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: [Push-On SMP Female to SMA Male Cable 50 cm Length Using PE-SR405FL Coax PE3W07044-50CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		10.2 [33.46]		$\Omega$ /1000ft [ $\Omega$ /Km]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	8		GHz
Insertion Loss (Max.)	0.57	0.66	0.87	1.25		dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Weight 0.05 lbs [22.68 g]

##### Cable

Cable Type PE-SR405FL  
 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 Material and Plating Copper, Tin  
 Repeated Minimum Bend Radius 0.78 in [19.81 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method	Push-On	
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-DTL-45204	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Outer Conductor Plating Specification	MIL-DTL-45204	
Body Material and Plating	Beryllium Copper, Gold	Stainless Steel, Gold
Body Plating Specification	MIL-DTL-45204	10 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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

#### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE3W07044-50CM**

**How to Order**

Part Number Configuration:

**PE3W07044**

- **xx**

**uu**

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

Example: PE3W07044-12 = 12 inches long cable  
PE3W07044-100cm = 100 cm long cable

Push-On SMP Female to SMA Male Cable 50 cm Length Using PE-SR405FL 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: [Push-On SMP Female to SMA Male Cable 50 cm Length Using PE-SR405FL Coax PE3W07044-50CM](https://www.pasternack.com/smp-female-sma-male-pe-sr405fl-cable-assembly-pe3w07044-50cm-p.aspx)

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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.

PE3W07044-50CM CAD Drawing

Push-On SMP Female to SMA Male Cable 50 cm Length Using PE-SR405FL Coax

