



## SMP Female Right Angle to Push-On SMP Female Cable 50 cm Length Using PE-SR405FL Coax

### RF Cable Assemblies Technical Data Sheet

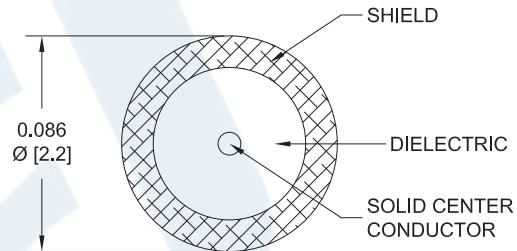
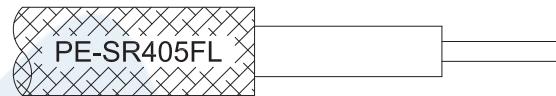
PE3W03777-50CM

#### Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: Push-On SMP Female
- Cable Type: PE-SR405FL

#### Features

- Max Frequency 8 GHz
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W03777-50CM SMP female right angle to SMP female push-on 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 SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W03777-50CM SMP female to SMP female cable assembly operates to 8 GHz. The right angle SMP interface on the PE-SR405FL cable allows for easier connections in tight spaces.

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: [SMP Female Right Angle to Push-On SMP Female Cable 50 cm Length Using PE-SR405FL Coax PE3W03777-50CM](#)



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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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	8	GHz
Insertion Loss (Max.)	0.55	0.67	0.76	0.92	1.26	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 0.3dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.19 in [4.83 mm]

##### 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 Right Angle	SMP Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method		Push-On
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-DTL-45204
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	Beryllium Copper, Gold
Body Plating Specification		MIL-DTL-45204

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

#### Plotted and Other Data

Notes:

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## SMP Female Right Angle to Push-On SMP Female Cable 50 cm Length Using PE-SR405FL Coax

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PE3W03777-50CM

#### How to Order

Part Number Configuration:

**PE3W03777**

- **xx**

**uu**

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

Example: PE3W03777-12 = 12 inches long cable  
PE3W03777-100cm = 100 cm long cable

SMP Female Right Angle to Push-On SMP Female 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.

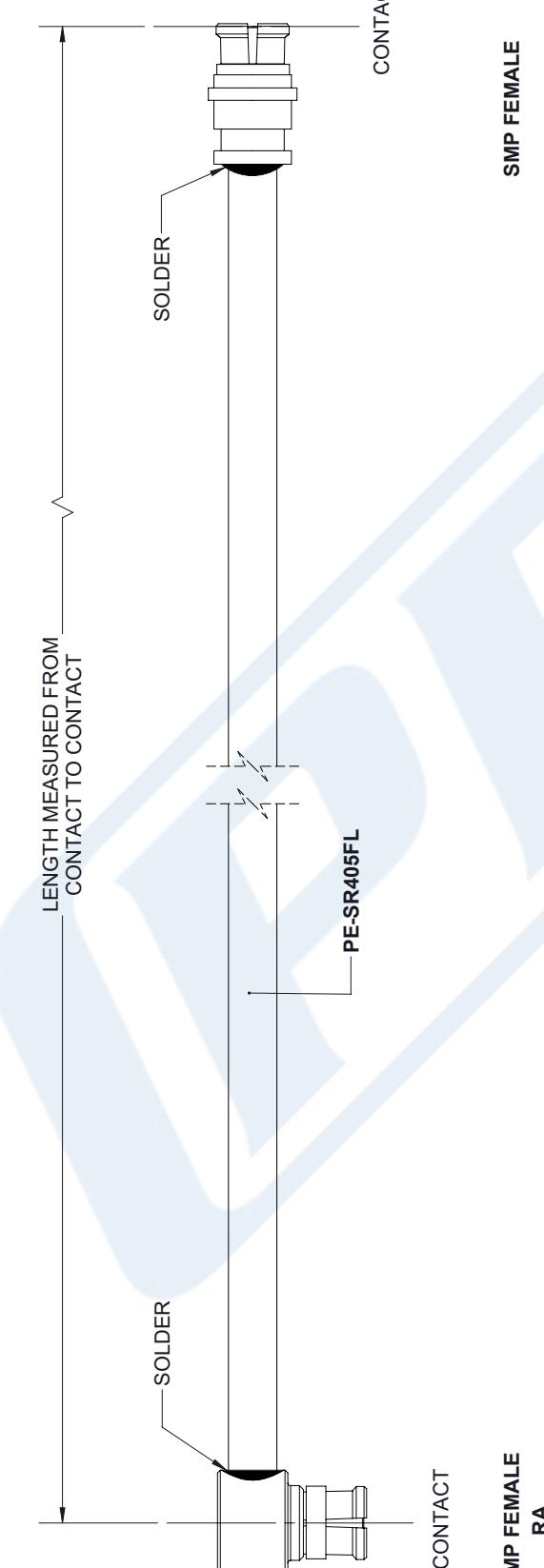
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URL: <https://www.pasternack.com/smp-female-smp-female-pe-sr405fl-cable-assembly-pe3w03777-50cm-p.aspx>

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.

**PE3W03777-50CM CAD Drawing**  
**SMP Female Right Angle to Push-On SMP Female Cable**  
**50 cm Length Using PE-SR405FL Coax**

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE	04/23/19	S.ELLIS	



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES:	FRACTIONS	ANGLES $\pm 1^\circ$
X=± .2 [5.08]	.XX=± .01 [ .25 ]	± 1/32	
XXX=± .005 [ .13 ]			

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.  
THIRD-ANGLE PROJECTION

SIZE CAGE DRAWN BY PART NUMBER REV

A 53919 K.DANG PE3W03777 A

SHEET 1 OF 1

SCALE N/A

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