

SSMC Plug to SMP Female Right Angle
Cable Using PE-SR405FLJ Coax



RF Cable Assemblies Technical Data Sheet

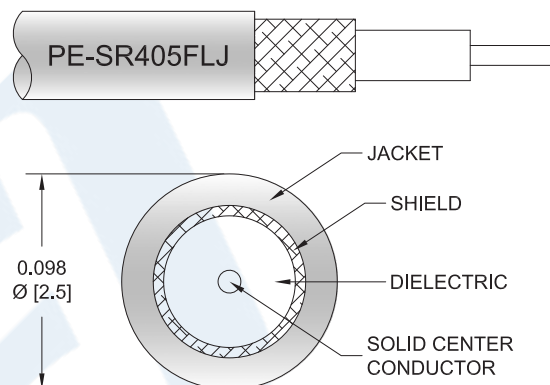
PE3W10685

Configuration

- Connector 1: SSMC Plug
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FLJ

Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10685 SSMC plug to SMP female right angle 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 SSMC to SMP cable assembly has a plug to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W10685 SSMC plug to SMP female cable assembly operates to 12.4 GHz. The right angle SMP interface on the PE-SR405FLJ 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: [SSMC Plug to SMP Female Right Angle Cable Using PE-SR405FLJ Coax PE3W10685](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.549	0.905	dB/ft
	0.49	0.74	1.14	1.8	2.97	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the SMP female connector and 0.3 dB for the SSMC plug connector.

Mechanical Specifications

Cable Assembly

Weight 0.052 lbs [23.59 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 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	SSMC Plug	SMP Female Right Angle
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	Teflon	PTFE
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating	Beryllium Copper, Gold	
Coupling Nut Plating Specification	MIL-G-45204	
Torque	1.75 in-lbs [0.2 Nm]	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W10685

How to Order

Part Number Configuration:

PE3W10685

- **xx**

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

Example: PE3W10685-12 = 12 inches long cable
PE3W10685-100cm = 100 cm long cable

SSMC Plug to SMP Female Right Angle 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.

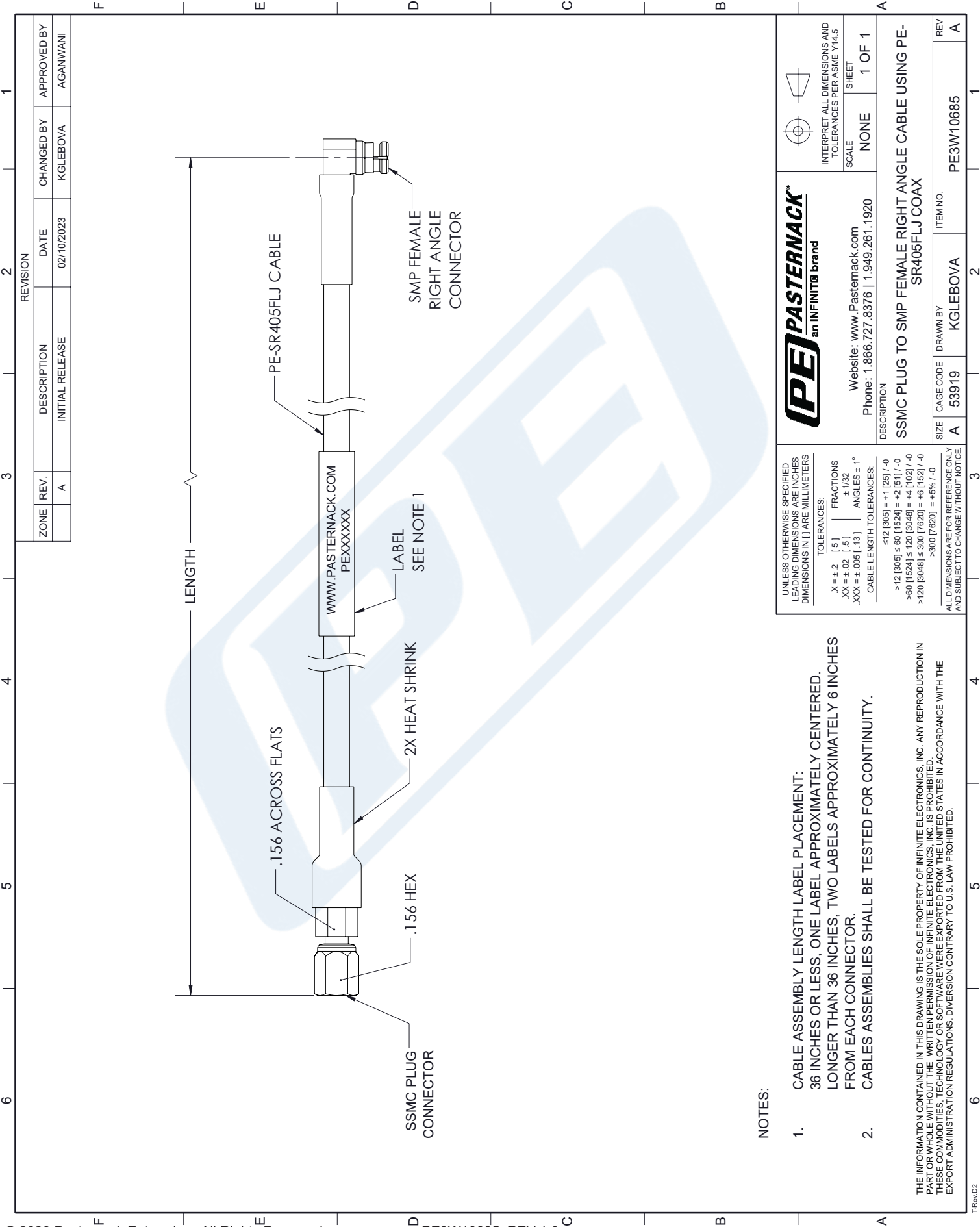
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URL: <https://www.pasternack.com/ssmc-plug-to-smp-female-cable-using-pe-sr405flj-pe3w10685-p.aspx>

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.

PE3W10685 CAD Drawing

SSMC Plug to SMP Female Right Angle Cable Using PE-SR405FLJ Coax



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
X = ± .02 [.5]	FRACTIONS ± 1/32
.XX = ± .005 [.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
≤ 12 [305] = ± .1 [25] / - 0	
> 12 [305] ≤ 60 [1524] = ± .2 [51] / - 0	
> 60 [1524] ≤ 120 [3048] = ± .4 [102] / - 0	
> 120 [3048] ≤ 300 [7620] = ± .8 [152] / - 0	
> 300 [7620] = ± 5% / - 0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

 PASTERNAK an INFINITI [®] brand			
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE: NONE	
DESCRIPTION SSMC PLUG TO SMP FEMALE RIGHT ANGLE CABLE USING PE-SR405FLJ COAX		SHEET 1 OF 1	
SIZE A	CAGE CODE 53919	DRAWN BY KGLEBOVA	REV A