

SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax



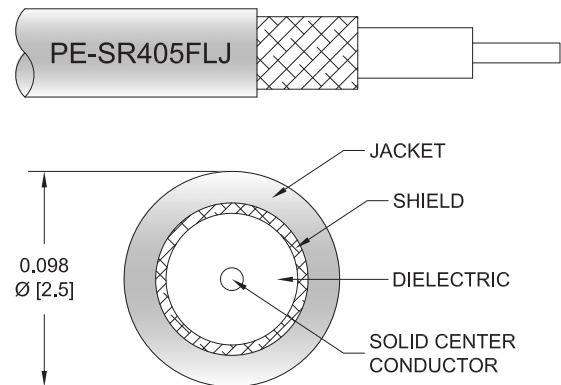
PE3C5015

Configuration

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

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5015 SMA female to SSMC 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 SSMC cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C5015 SMA female to SSMC plug cable assembly operates to 12.4 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.

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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	12400	MHz	
PE3C5015	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.225	0.363	0.594	0.905	dB/ft	
			0.5	0.74	1.2	1.95	2.97	dB/m	
PE3C5015-6	6 inch	Insertion Loss (Typ.)	0.48	0.52	0.59	0.7	0.86	dB	0.02
PE3C5015-9	9 inch	Insertion Loss (Typ.)	0.52	0.57	0.68	0.85	1.08	dB	0.024
PE3C5015-12	12 inch	Insertion Loss (Typ.)	0.55	0.63	0.77	1	1.31	dB	0.027
PE3C5015-18	18 inch	Insertion Loss (Typ.)	0.63	0.74	0.95	1.3	1.76	dB	0.035
PE3C5015-24	24 inch	Insertion Loss (Typ.)	0.7	0.85	1.13	1.59	2.21	dB	0.042

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: 0.3 dB
 Base Weight: 0.027 pounds
 Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.027 lbs [12.25 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	SMA Female	SSMC Plug
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	Teflon
Body Material and Plating	Stainless Steel, 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

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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PE3C5015

Typical Performance Data

How to Order

Part Number Configuration:

PE3C5015

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

Length
Base Number

Example: PE3C5015-12 = 12 inches long cable
PE3C5015-100cm = 100 cm long cable

SMA Female to SSMC 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 to SSMC Plug Cable Using PE-SR405FLJ Coax PE3C5015](#)

URL: <https://www.pasternack.com/sma-female-to-ssmc-plug-cable-using-pe-sr405flj-pe3c5015-p.aspx>

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PE3C5015 CAD Drawing
SMA Female to SSMC Plug Cable Using PE-SR405FLJ Coax

