

MMCX Plug to SSMC Plug Cable Using PE-SR405FLJ Coax



PE3C4547

Configuration

- Connector 1: MMCX Plug
- Connector 2: SSMC 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 PE3C4547 MMCX plug 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 MMCX to SSMC cable assembly has a plug to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C4547 MMCX plug to SSMC plug cable assembly operates to 6 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		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]
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

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C4547	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.23	0.346	0.549	0.601	dB/ft	
			0.5	0.74	1.14	1.81	1.98	dB/m	
PE3C4547-6	6 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.48	0.51	dB	0.017
PE3C4547-9	9 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.62	0.66	dB	0.021
PE3C4547-12	12 inch	Insertion Loss (Typ.)	0.35	0.43	0.55	0.75	0.81	dB	0.024
PE3C4547-18	18 inch	Insertion Loss (Typ.)	0.43	0.54	0.72	1.03	1.11	dB	0.032
PE3C4547-24	24 inch	Insertion Loss (Typ.)	0.5	0.65	0.9	1.3	1.41	dB	0.039

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:	0.1 dB
Base Weight:	0.024 pounds
Additional Weight per Inch:	0.00117 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.024 lbs [10.89 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	MMCX Plug	SSMC Plug
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		MIL-G-45204
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification		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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PE3C4547

Typical Performance Data

How to Order

Part Number Configuration:

PE3C4547

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C4547-12 = 12 inches long cable
PE3C4547-100cm = 100 cm long cable

MMCX Plug 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: [MMCX Plug to SSMC Plug Cable Using PE-SR405FLJ Coax PE3C4547](#)

URL: <https://www.pasternack.com/mmcx-plug-to-ssmc-plug-cable-using-pe-sr405flj-pe3c4547-p.aspx>

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PE3C4547 CAD Drawing

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