MMCX Plug to SSMC Plug Cable Using PE-SR405FL Coax

PE3C4541

Configuration

- Connector 1: MMCX Plug
- Connector 2: SSMC Plug
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity

PE-SR405FL

SHIELD

0.086 Ø [2.2]

DIELECTRIC

SOLID CENTER CONDUCTOR
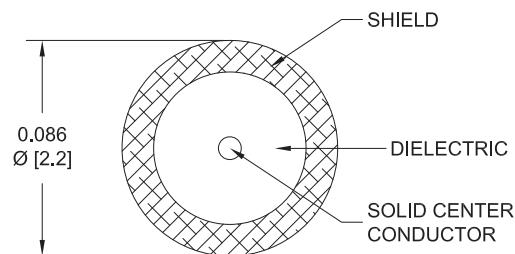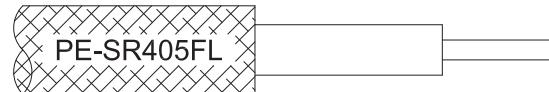
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C4541 MMCX plug to SSMC plug 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 MMCX to SSMC cable assembly has a plug to plug gender configuration with 50 ohm formable PE-SR405FL coax. The PE3C4541 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	
VSWR			1.4:1	
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

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3C4541	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.22	0.34	0.6	dB/ft	
			0.5	0.73	1.12	1.97	dB/m	
PE3C4541-6	6 inch	Insertion Loss (Typ.)	0.48	0.51	0.57	0.7	dB	0.016
PE3C4541-9	9 inch	Insertion Loss (Typ.)	0.52	0.57	0.66	0.85	dB	0.019
PE3C4541-12	12 inch	Insertion Loss (Typ.)	0.55	0.62	0.74	1	dB	0.021
PE3C4541-24	24 inch	Insertion Loss (Typ.)	0.7	0.84	1.08	1.6	dB	0.033
PE3C4541-36	36 inch	Insertion Loss (Typ.)	0.85	1.06	1.42	2.2	dB	0.044

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:	0.021	pounds
Additional Weight per Inch:	0.00092	pounds

Mechanical Specifications

Cable Assembly
Weight   0.021 lbs [9.53 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 1 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	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

Compliance Certifications (see product page for current document)

Plotted and Other Data

      Notes:

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

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PE3C4541

Typical Performance Data

How to Order

Part Number Configuration: **PE3C4541**   **- xx**   **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number
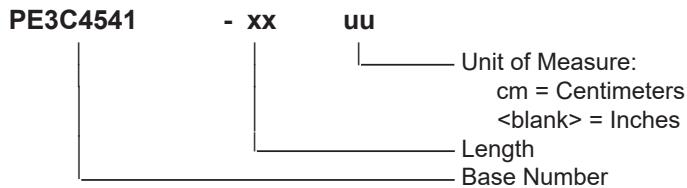
Example: PE3C4541-12 = 12 inches long cable
PE3C4541-100cm = 100 cm long cable

MMCX Plug to SSMC Plug Cable 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: MMCX Plug to SSMC Plug Cable Using PE-SR405FL Coax PE3C4541

URL: https://www.pasternack.com/mmcx-plug-to-ssmc-plug-cable-using-pe-sr405fl-pe3c4541-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C4541 CAD Drawing

MMCX Plug to SSMC Plug Cable Using PE-SR405FL Coax

SSMC PLUG CONNECTOR

2X 5/32 HEX

5/32 FLATS

LENGTH SEE NOTE 2

LABEL SEE NOTE 1

WWW.PASTERNACK.COM
PEXXXXXXX-XX

PE-SR405FL COAX CABLE

SOLDER

MMCX PLUG CONNECTOR

NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/7/2023	KDANG	AGANWANI

REVISION

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
X = ±.2 [5]
.XX = ±.02 [0.5]
.XXX = ±.005 [0.13]

FRACTIONS
± 1/32
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] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET 1 OF 1

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an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

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SIZE A | CAGE CODE 53919 | DRAWN BY KDANG | ITEM NO. PE3C4541 | REV A

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PE DS Rev–D4 Asize

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