

## SMA Male to MMCX Plug Cable Using PE-SR405FLJ Coax



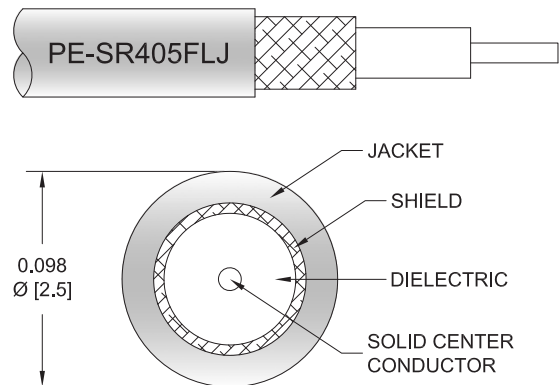
### PE3C3222

#### Configuration

- Connector 1: SMA Male
- Connector 2: MMCX 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 PE3C3222 SMA male to MMCX 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 MMCX cable assembly has a male to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C3222 SMA male to MMCX 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]

#### Specifications by Frequency

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### PE3C3222

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		250	500	1000	2500	
PE3C3222	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	
PE3C3222-6	6 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.48	0.51	dB	0.022
PE3C3222-9	9 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.62	0.66	dB	0.026
PE3C3222-12	12 inch	Insertion Loss (Typ.)	0.35	0.43	0.55	0.75	0.81	dB	0.029
PE3C3222-18	18 inch	Insertion Loss (Typ.)	0.43	0.54	0.72	1.03	1.11	dB	0.037
PE3C3222-24	24 inch	Insertion Loss (Typ.)	0.5	0.65	0.9	1.3	1.41	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:	0.1 dB
Base Weight:	0.029 pounds
Additional Weight per Inch:	0.00117 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.029 lbs [13.15 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
Shield Layer 1	Tinned Copper Braid
Jacket Material	FEP, Black
Jacket Diameter	0.098 in [2.49 mm]
One Time Minimum Bend Radius	0.236 in [5.99 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MMCX Plug
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Stainless Steel, Gold	Brass, Gold
Body Plating Specification	10 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 in.	
Torque	5 in-lbs 0.57 Nm	
Seal Gasket Material	Silicone	

#### Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

#### Plotted and Other Data

Notes:

## SMA Male to MMCX Plug Cable Using PE-SR405FLJ Coax



### PE3C3222

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C3222**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C3222-12 = 12 inches long cable  
PE3C3222-100cm = 100 cm long cable

SMA Male to MMCX 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.

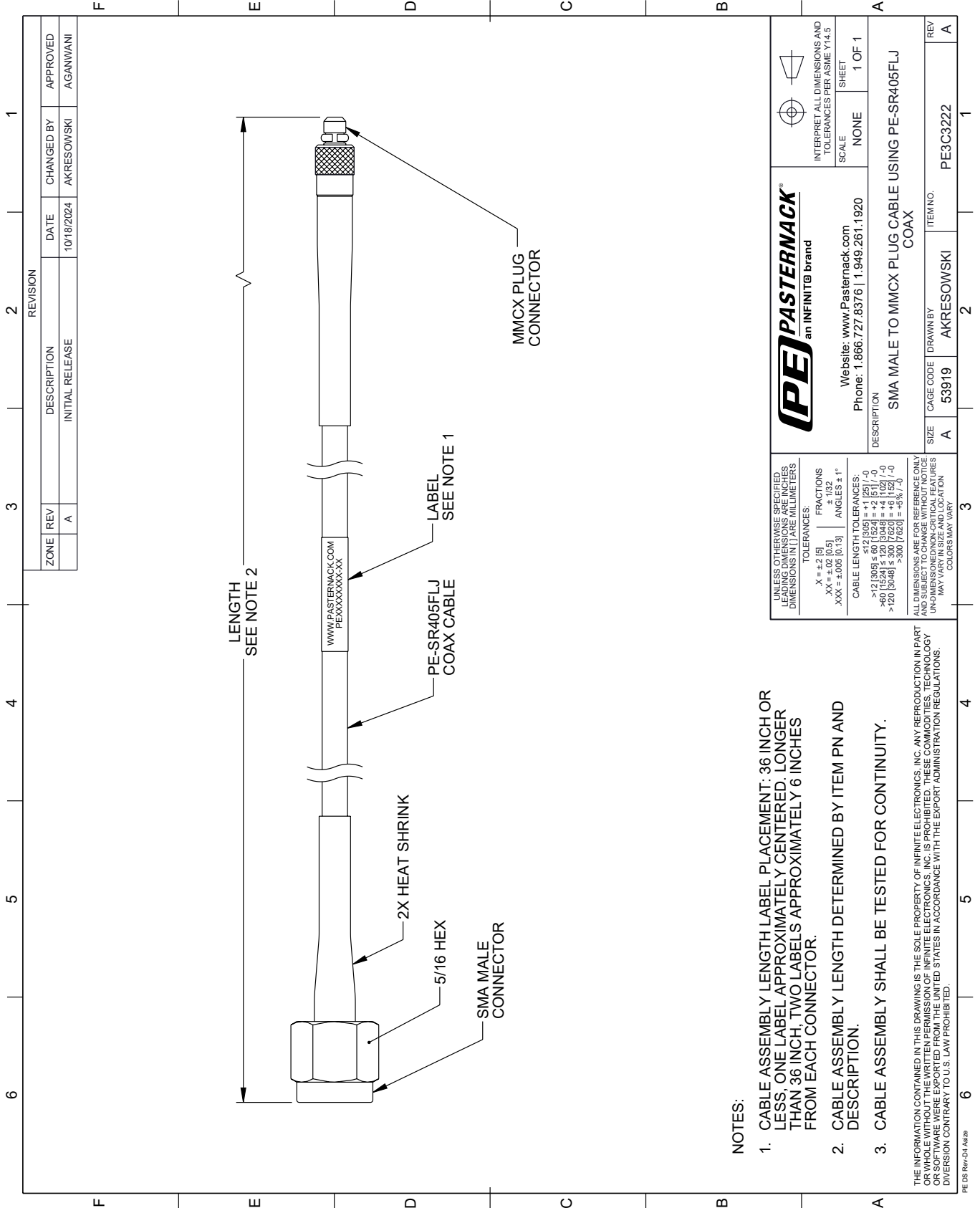
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to MMCX Plug Cable Using PE-SR405FLJ Coax PE3C3222](https://www.pasternack.com/sma-male-to-mmcx-plug-cable-using-pe-sr405flj-pe3c3222-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-mmcx-plug-cable-using-pe-sr405flj-pe3c3222-p.aspx>

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# PE3C3222 CAD Drawing

SMA Male to MMCX Plug Cable Using PE-SR405FLJ Coax



## NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.

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PE DS Rev-D4 Add2

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

TOLERANCES:

.X = ±.2 [5]	FRACTIONS ± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	

CABLE LENGTH TOLERANCES:

<12 [305] ≤ 60 [1524] = ±.1 [25] / -0
>60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
>120 [3048] ≤ 300 [7620] = ±.6 [152] / -0
>300 [7620] = ±.8 [203] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

DESCRIPTION	SIZE	CAGE CODE	DRAWN BY	ITEM NO.
SMA MALE TO MMCX PLUG CABLE USING PE-SR405FLJ COAX	A	53919	AKRESOWSKI	PE3C3222