



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

RF Cable Assemblies Technical Data Sheet

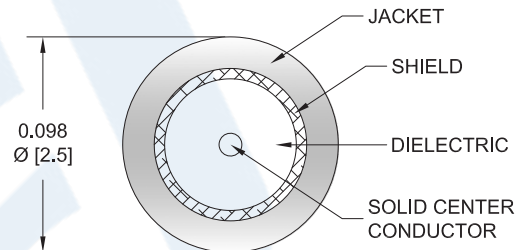
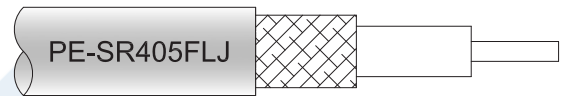
PE3C3221

**Configuration**

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

**Features**

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C3221 SMP female right angle to MMCX plug 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 SMP to MMCX cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C3221 SMP female to MMCX plug cable assembly operates to 6 GHz. The right angle SMP and right angle MMCX interfaces on the PE-SR405FLJ cable allow 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.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FLJ Coax PE3C3221](#)



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**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	6	GHz
Insertion Loss (Max.)	0.15	0.22	0.3	0.46	0.6	dB/ft
	0.49	0.72	0.98	1.51	1.97	dB/m

**Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Connector Insertion Loss is estimated as 0.4dB.

**Mechanical Specifications**

**Cable Assembly**

Diameter 0.19 in [4.83 mm]

Weight 0.011 lbs [4.99 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]

**Connectors**

Description	Connector 1	Connector 2
Type	SMP Female Right Angle	MMCX Plug Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold

**Mechanical Specification Notes:**

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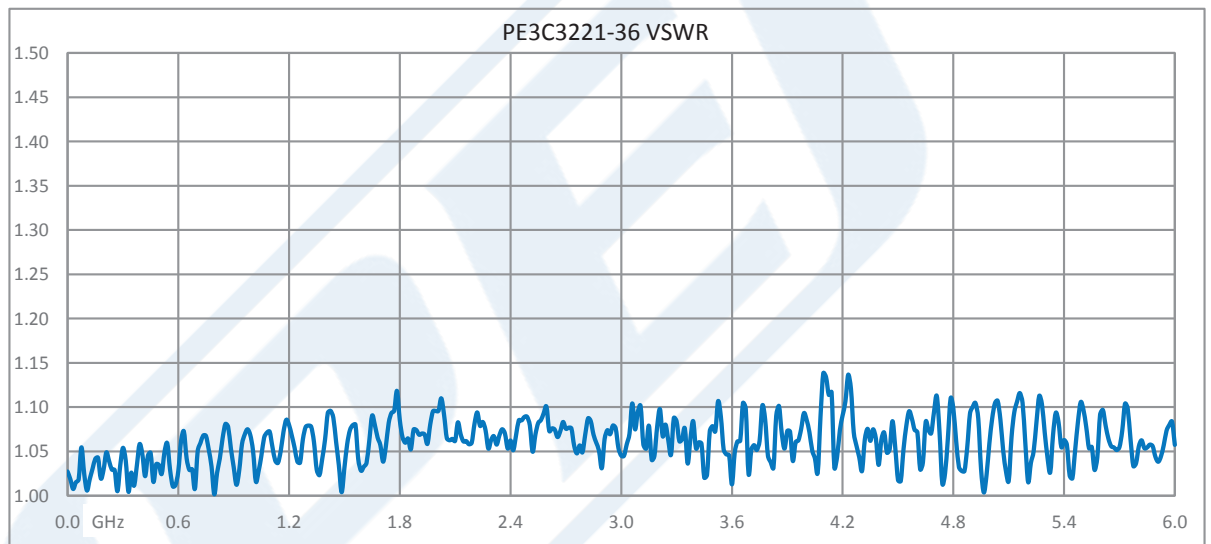
\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8$ ", whichever is greater.

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



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

### RF Cable Assemblies Technical Data Sheet

PE3C3221

#### How to Order

Part Number Configuration:

**PE3C3221**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C3221-12 = 12 inches long cable  
PE3C3221-100cm = 100 cm long cable

SMP Female Right Angle to MMCX Plug 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.

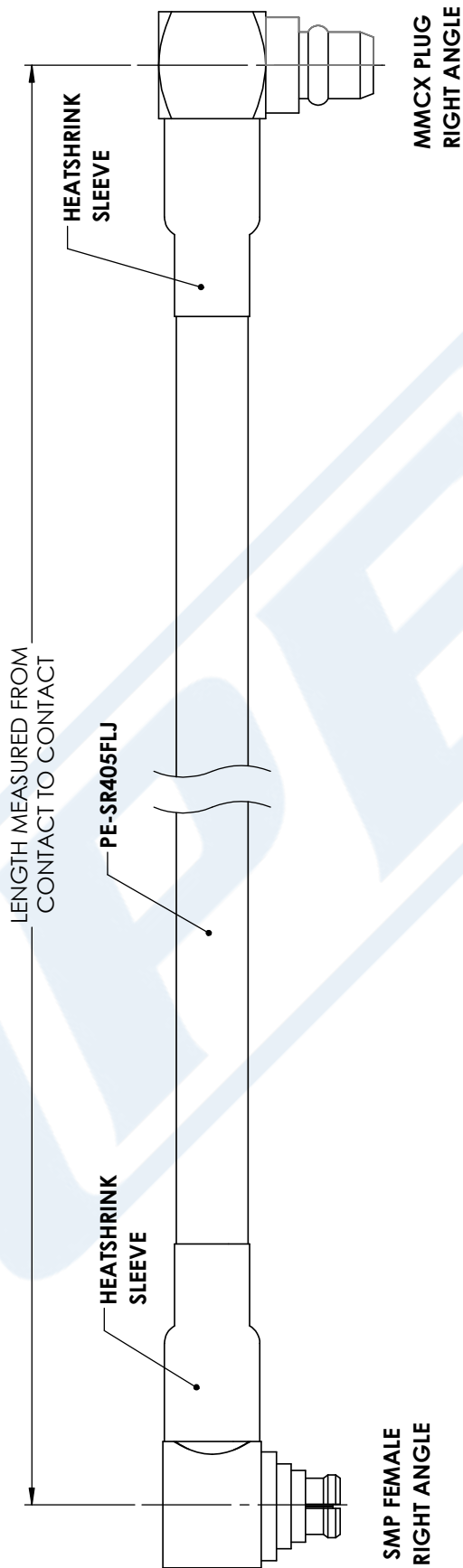
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FLJ Coax PE3C3221](https://www.pasternack.com/smp-female-mmcx-plug-pe-sr405flj-cable-assembly-pe3c3221-p.aspx)

URL: <https://www.pasternack.com/smp-female-mmcx-plug-pe-sr405flj-cable-assembly-pe3c3221-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.

# PE3C3221 CAD Drawing

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



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**NOTES:**  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE  
 PE3C3221

CAGE CODE  
 53919

SCALE  
 N/A

CAD FILE  
 10/16/18

SIZE  
 A

CN2245

**PASTERNAK**  
 THE ENGINEER'S RF SOURCE

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