



SMP Female Right Angle to MMCX Plug Right Angle Cable 12 Inch Length Using PE-SR405FLJ Coax

RF Cable Assemblies Technical Data Sheet

PE3C3221-12

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 PE3C3221-12 SMP female right angle to MMCX plug right angle 12 inch 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 PE3C3221-12 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 12 Inch Length Using PE-SR-405FLJ Coax PE3C3221-12](#)



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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.)	0.55	0.625	0.7	0.868	1.001	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated connector loss of 0.4dB.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.19 in [4.83 mm]

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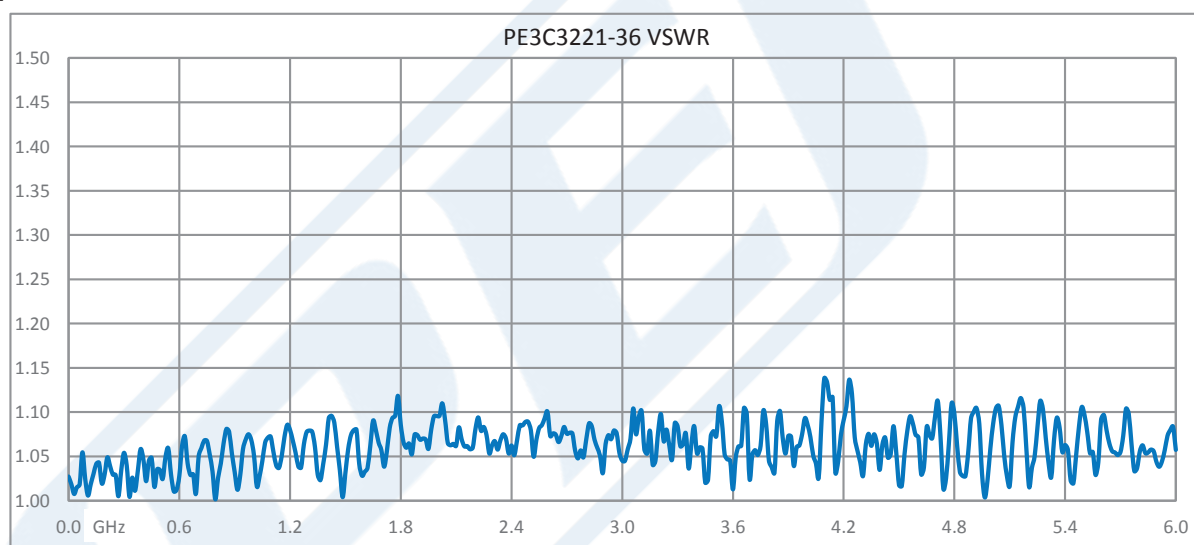
*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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

Plotted and Other Data

Notes:

Typical Performance Data



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 12 Inch Length Using PE-SR-405FLJ Coax PE3C3221-12](#)



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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

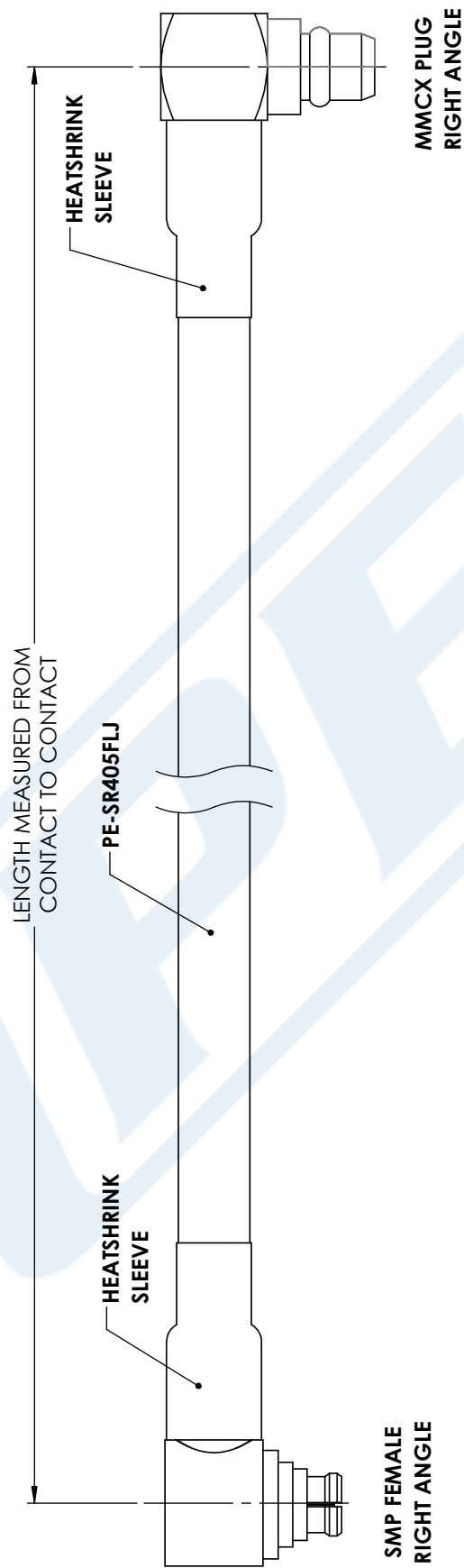
SMP Female Right Angle to MMCX Plug Right Angle Cable 12 Inch Length Using PE-SR405FLJ Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the 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 12 Inch Length Using PE-SR405FLJ Coax PE3C3221-12](https://www.pasternack.com/smp-female-mmcx-plug-pe-sr405flj-cable-assembly-pe3c3221-12-p.aspx)

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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.

PE3C3221-12 CAD Drawing
SMP Female Right Angle to MMCX Plug Right Angle Cable
12 Inch Length 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

CAD FILE	10/16/18	SCALE	N/A	SIZE	A
CN2245					



PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com