

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



RF Cable Assemblies Technical Data Sheet

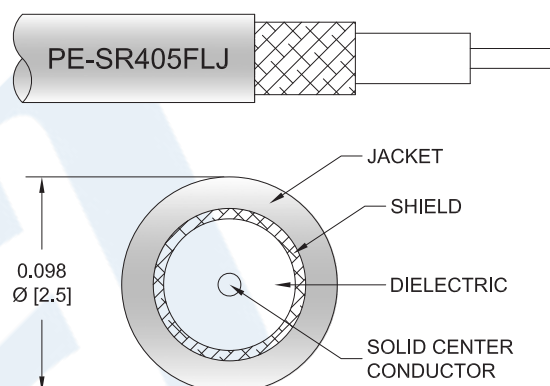
PE3W10213

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: MMCX Jack
- 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 PE3W10213 SMP female right angle to MMCX jack 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 jack gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W10213 SMP female to MMCX jack cable assembly operates to 6 GHz. The right angle SMP interface on the PE-SR405FLJ cable allows 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.

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 Jack Cable Using PE-SR405FLJ Coax PE3W10213](#)



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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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			170	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	6	GHz
Insertion Loss (Typ.)	0.15	0.225	0.347	0.549	0.602	dB/ft
	0.49	0.74	1.14	1.8	1.98	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.05xSQRT(fGHz) dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.022 lbs [9.98 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 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	SMP Female Right Angle	MMCX Jack
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-DTL-45204	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Outer Conductor Plating Specification	MIL-DTL-45204	
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification	MIL-DTL-45204	

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

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

RF Cable Assemblies Technical Data Sheet

PE3W10213

How to Order

Part Number Configuration:

PE3W10213

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W10213-12 = 12 inches long cable
PE3W10213-100cm = 100 cm long cable

SMP Female Right Angle to MMCX Jack 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.

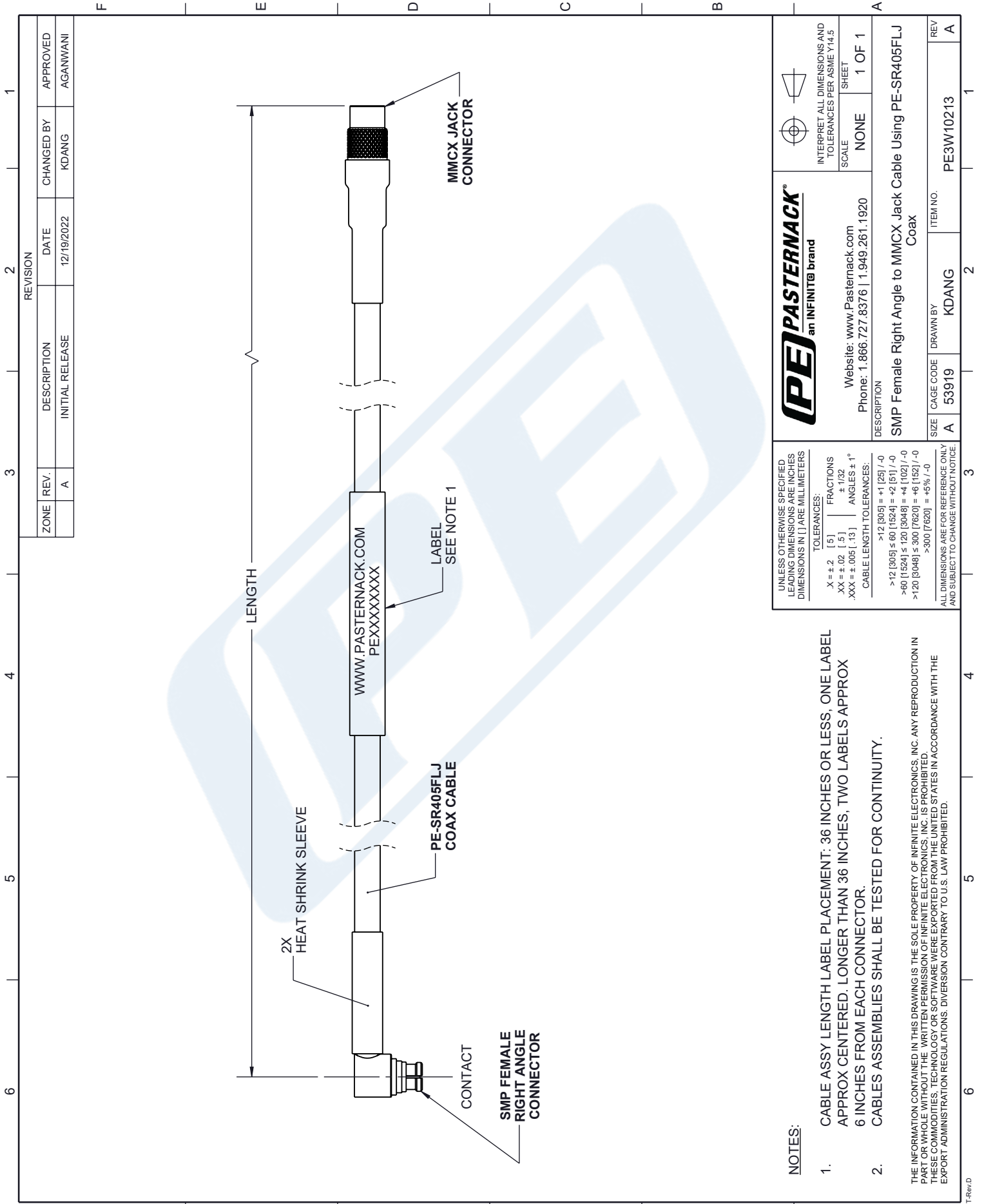
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to MMCX Jack Cable Using PE-SR405FLJ Coax PE3W10213](https://www.pasternack.com/smp-female-right-angle-to-mmcx-jack-cable-using-pe-sr405flj-pe3w10213-p.aspx)

URL: <https://www.pasternack.com/smp-female-right-angle-to-mmcx-jack-cable-using-pe-sr405flj-pe3w10213-p.aspx>

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PE3W10213 CAD Drawing

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



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. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL METERS		PASTERNAK® an INFINITE® brand			
TOLERANCES:		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			
X = ± 2		[5]		FRACTIONS	
XX = ± .02		[.5]		1 / 32	
XXX = ± .005		[.13]		ANGLES ± 1°	
CABLE LENGTH TOLERANCES:					
		> 120 [3048] ≤ 300 [7620] = +6 [152] / -0			
		> 300 [7620] = +5% / -0			
		> 120 [3048] ≤ 300 [7620] = +4 [102] / -0			
		> 60 [1524] ≤ 120 [3048] = +4 [102] / -0			
		> 120 [3048] ≤ 60 [1524] = +2 [51] / -0			
		> 120 [3048] ≤ 60 [1524] = +1 [25] / -0			
DESCRIPTION		SMP Female Right Angle to MMCX Jack Cable Using PE-SR405FLJ Coax			
Website: www.Pasternack.com		Phone: 1.866.727.8376 1.949.261.1920			
SCALE		NONE		SHEET 1 OF 1	
SIZE	A	CAGE CODE	53919	DRAWN BY	KDANG
ITEM NO.				PE3W10213	
REV				A	
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