

MMCX Plug to SMA Male Right Angle Cable
Using PE-SR405FLJ Coax with HeatShrink

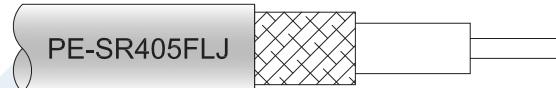


RF Cable Assemblies Technical Data Sheet

PE3W08331/HS

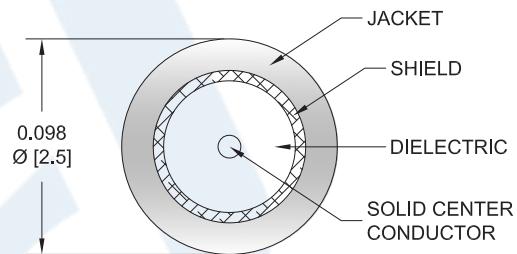
Configuration

- Connector 1: MMCX Plug
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR405FLJ



Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08331/HS MMCX plug to SMA male 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 MMCX to SMA cable assembly has a plug to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W08331/HS MMCX plug to SMA male cable assembly operates to 6 GHz. The right angle SMA 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: [MMCX Plug to SMA Male Right Angle Cable Using PE-SR405FLJ Coax with HeatShrink PE3W08331/HS](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
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]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.112	0.15	0.225	0.346	0.601	dB/ft
	0.37	0.49	0.74	1.14	1.97	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the MMCX plug connector and 0.2 dB for the SMA male connector.

Mechanical Specifications

Cable Assembly

Weight 0.033 lbs [14.97 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	MMCX Plug	SMA Male Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		50 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Stainless Steel, Gold
Body Plating Specification		30 μ in minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 μ in minimum
Hex Size		5/16 inch
Torque		3 in-lbs [0.34 Nm]

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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PE3W08331/HS

How to Order

Part Number Configuration:

PE3W08331/HS - xx uu

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

Example: PE3W08331/HS-12 = 12 inches long cable
PE3W08331/HS-100cm = 100 cm long cable

MMCX Plug to SMA Male Right Angle Cable Using PE-SR405FLJ Coax with HeatShrink 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.

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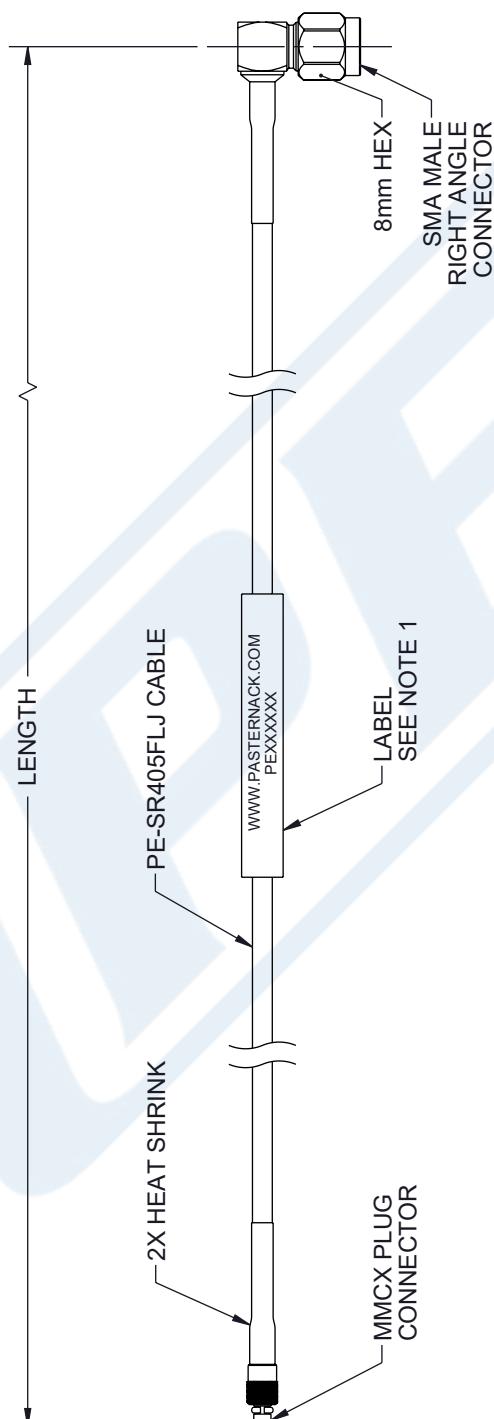
URL: <https://www.pasternack.com/mmcx-plug-to-sma-male-cable-using-pe-sr405flj-with-heatshrink-pe3w08331-hs-p.aspx>

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.

PE3W08331/HS CAD Drawing

MMCX Plug to SMA Male Right Angle Cable Using PE-SR405FLJ Coax with HeatShrink

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/10/2023	HBAKKE	AGANWANI



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

NOTES:

ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES

FROM EACH CONNECTOR.

PASTERNACK an INFINITI® brand			
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		INTERPRET ALL DIMENSIONAL TOLERANCES PER ASME B4.5-1994	
TOLERANCES: $X = \pm 0.2$ [.5] $XX = \pm 0.02$ [.5] $XXX = \pm 0.005$ [.13]	FRACTIONS $\pm .32$ ANGLES $\pm 1^\circ$	SCALE NONE	SHEET 1 0
CABLE LENGTH TOLERANCES: $>1 [305] = \pm 1 [25] = -0$ $>12 [305] = \pm 0 [152] = +2 [51] = -0$ $>60 [1152] = \pm 10 [304] = +20 [101] = -0$	DESCRIPTION MMCX PLUG TO SMA MALE RIGHT ANGLE CABLE USING	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	

PE-SR405FLJ COAX WITH HEATSHRINK
 ALL DIMENSIONS ARE FOR REFERENCE ONLY
 AND SUBJECT TO CHANGE WITHOUT NOTICE.

ITEM NO.	PE3W08331/H5	REV A
SIZE	CAGE CODE	DRAWN BY
A	533919	HBAKKE
>120 [3048] < 300 [7620] = +6 [152] - 0		
>300 [7620] = +5% - 0		