



Mini SMP Female Right Angle to MMCX Plug Right Angle
Cable Using PE-SR405FL Coax with 90 Deg. Clock

RF Cable Assemblies Technical Data Sheet

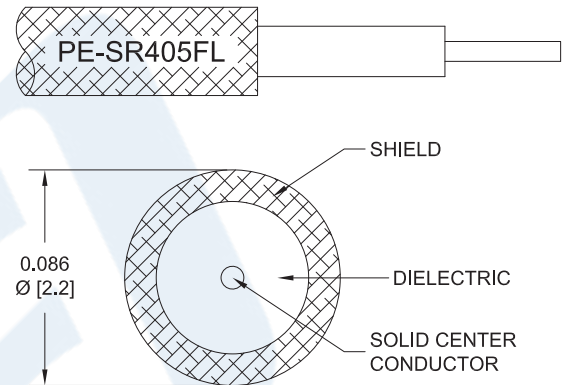
PE3C9331/PH90

Configuration

- Connector 1: Mini SMP Female Right Angle
- Connector 2: MMCX Plug Right Angle
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C9331/PH90 Mini SMP female right angle to MMCX plug right angle cable using PE-SR405FL 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 Mini SMP to MMCX cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FL coax. The PE3C9331/PH90 Mini SMP female to MMCX plug cable assembly operates to 6 GHz. The right angle Mini SMP and right angle MMCX interfaces on the PE-SR405FL 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock PE3C9331/PH90](#)



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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		%
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	0.5	1	2.5	6		GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.601		dB/ft
	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 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.022 lbs [9.98 g]

Cable

Cable Type PE-SR405FL
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 Copper, Tin

Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock PE3C9331/PH90](#)



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Connectors

Description	Connector 1	Connector 2
Type	Mini 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 over Nickel
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Brass, Gold	Brass, Gold over Nickel

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

Plotted and Other Data

Notes:

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PE3C9331/PH90

How to Order

Part Number Configuration:

PE3C9331/PH90

- xx

uu

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

Example: PE3C9331/PH90-12 = 12 inches long cable
PE3C9331/PH90-100cm = 100 cm long cable

Mini SMP Female Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock 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.

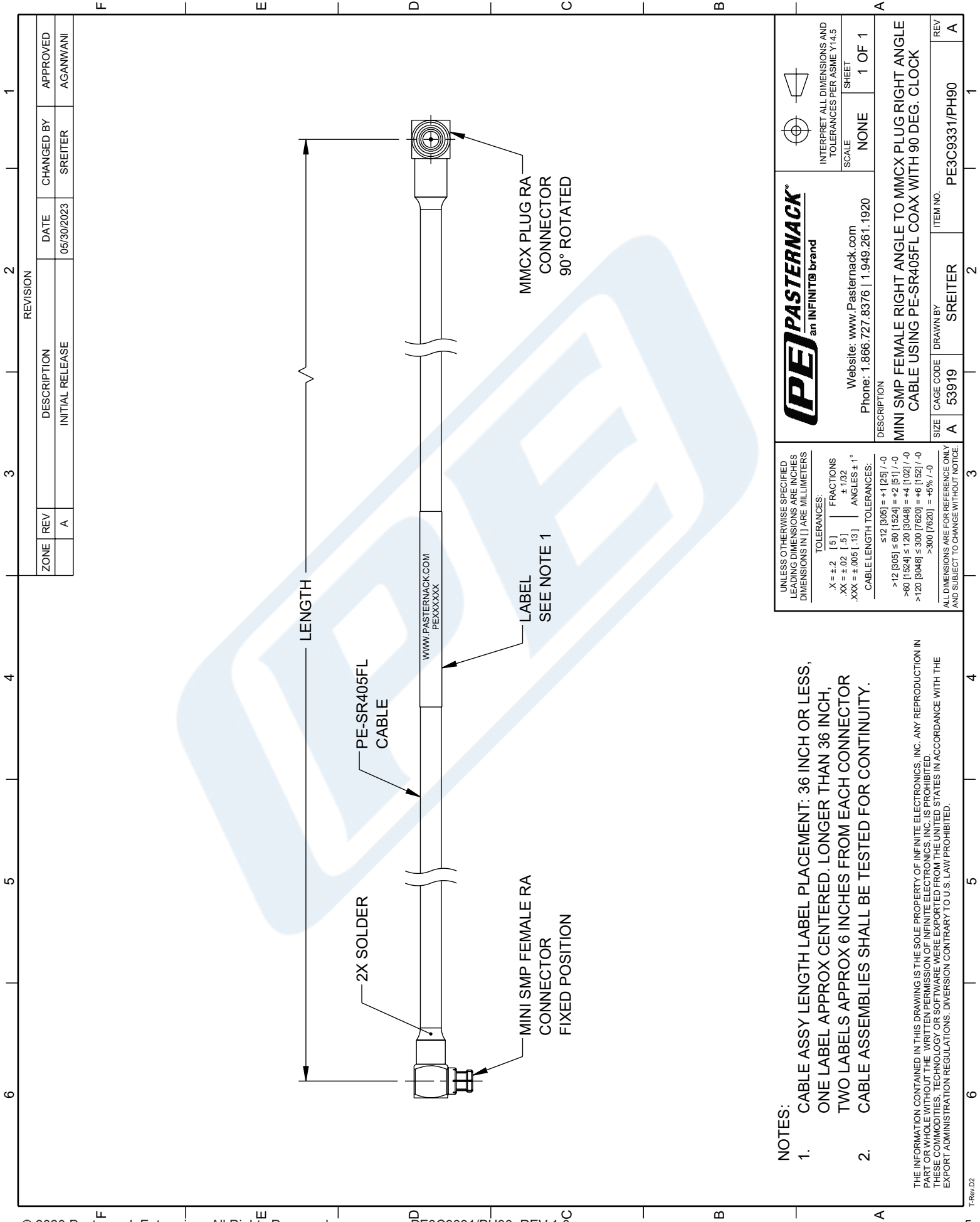
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URL: <https://www.pasternack.com/mini-smp-female-right-angle-to-mmcx-plug-cable-using-pe-sr405fl-with-90-deg.-clock-pe3c9331-ph90-p.aspx>

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.

PE3C9331/PH90 CAD Drawing

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NOTES:

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

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 PASTERNAK an INFINITE brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
DESCRIPTION Mini SMP Female Right Angle to MMCX Plug Right Angle Cable Using PE-SR405FL Coax with 90 Deg. Clock			
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		CAGE CODE A 53919	ITEM NO. PE3C9331/PH90
SIZE A		REV A	

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

TOLERANCES:
X = ±.2 [5] FRACTIONS
.XX = ±.02 [.5] ±.1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.