

SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax

PE3C3017



Configuration

- Connector 1: SMA Female
- Connector 2: Mini SMP Female Right Angle
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3017 SMA female to Mini SMP female 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 SMA to Mini SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C3017 SMA female to Mini SMP female cable assembly operates to 18 GHz. The right angle Mini 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	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]
Operating Voltage (AC)			325	Vrms

Specifications by Frequency

SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax



PE3C3017

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C3017	Custom Lengths Available	Insertion Loss (Typ.)	0.225	0.306	0.509	0.759	1.122	dB/ft	
			0.74	1.01	1.67	2.5	3.69	dB/m	
PE3C3017-6	6 inch	Insertion Loss (Typ.)	0.27	0.33	0.47	0.63	0.88	dB	0.02
PE3C3017-9	9 inch	Insertion Loss (Typ.)	0.32	0.41	0.59	0.82	1.16	dB	0.024
PE3C3017-12	12 inch	Insertion Loss (Typ.)	0.38	0.48	0.72	1.01	1.44	dB	0.027
PE3C3017-18	18 inch	Insertion Loss (Typ.)	0.49	0.63	0.97	1.39	2	dB	0.035
PE3C3017-24	24 inch	Insertion Loss (Typ.)	0.6	0.79	1.23	1.77	2.56	dB	0.042

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB
 Loss due to Connector 2: 0.05*SQRT(FGHz) dB
 Base Weight: 0.027 pounds
 Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.027 lbs [12.25 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]

SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax

PE3C3017



Connectors

Description	Connector 1	Connector 2
Type	SMA Female	Mini SMP Female Right Angle
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Stainless Steel, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	

Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

Plotted and Other Data

Notes:

SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax



PE3C3017

Typical Performance Data

How to Order

Part Number Configuration:

PE3C3017

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C3017-12 = 12 inches long cable
PE3C3017-100cm = 100 cm long cable

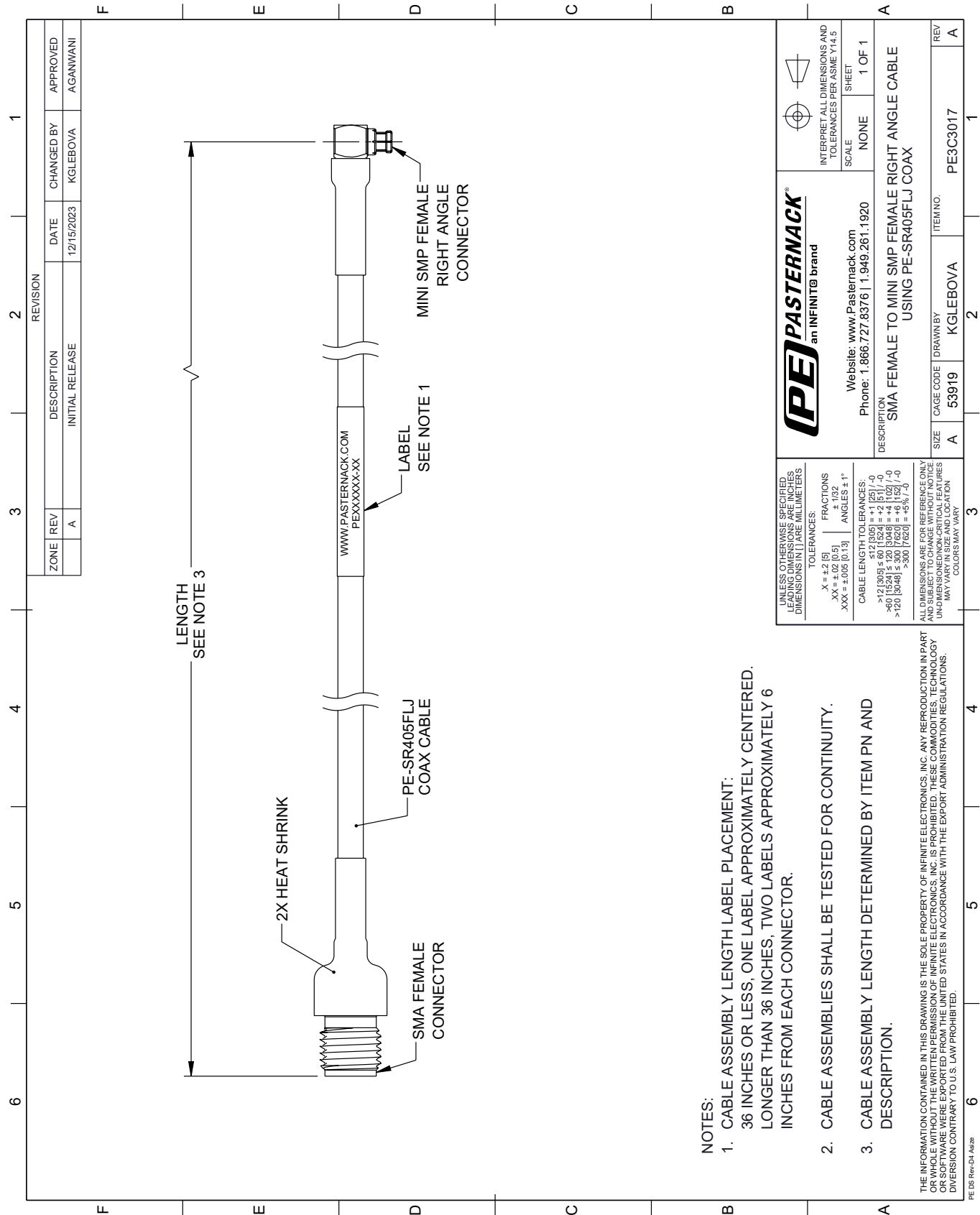
SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax PE3C3017](#)

URL: <https://www.pasternack.com/sma-female-to-mini-smp-female-cable-using-pe-sr405flj-pe3c3017-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3C3017 CAD Drawing
SMA Female to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax



- 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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND
DESCRIPTION.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.		PE PASTERNAK an INFINITE® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE	
.X = ±.2 [5]		Phone: 1.866.727.8376 1.949.261.1920		NONE	
.XX = ±.02 [0.5]				SHEET	
.XXX = ±.005 [0.13]				1 OF 1	
ANGLES ± 1°					
CABLE LENGTH TOLERANCES:		DESCRIPTION			
>12 [305] ≤ 60 [1524] = ±.1 [25] / -0		SMA FEMALE TO MINI SMP FEMALE RIGHT ANGLE CABLE			
>60 [1524] ≤ 120 [3048] = ±.1 [25] / -0		USING PE-SR405FLJ COAX			
>120 [3048] ≤ 300 [7620] = ±.1 [25] / -0					
>300 [7620] = ±.1 [25] / -0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.		SIZE		REV	
		A		A	
		CAGE CODE		ITEM NO.	
		53919		PE3C3017	
		DRAWN BY			
		KGLEBOVA			