



SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax

TECHNICAL DATA SHEET

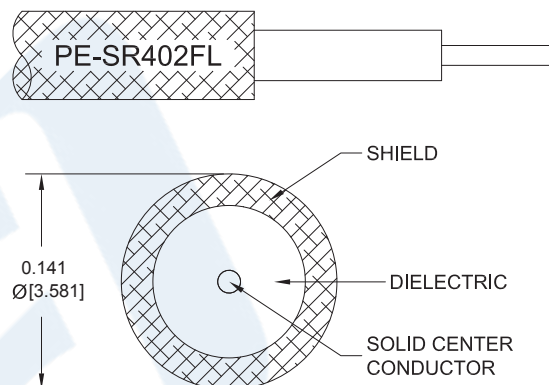
PE3W06827

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06827 SMA male right angle to SMA male right angle cable using PE-SR402FL 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 SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W06827 SMA male to SMA male cable assembly operates to 18 GHz. The right angle SMA interfaces on the PE-SR402FL 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: [SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax PE3W06827](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		5.5 [18.04]		Ω /1000ft [Ω /Km]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	#####	MHz	
PE3W06827	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.16	0.26	0.41	0.65	dB/ft	
			0.4	0.53	0.86	1.35	2.14	dB/m	
PE3W06827-6	6 inch	Insertion Loss (Typ.)	0.46	0.48	0.53	0.61	0.73	dB	0.077
PE3W06827-9	9 inch	Insertion Loss (Typ.)	0.49	0.52	0.6	0.71	0.89	dB	0.083
PE3W06827-12	12 inch	Insertion Loss (Typ.)	0.52	0.56	0.66	0.81	1.05	dB	0.089
PE3W06827-18	18 inch	Insertion Loss (Typ.)	0.58	0.64	0.79	1.02	1.38	dB	0.102
PE3W06827-24	24 inch	Insertion Loss (Typ.)	0.64	0.72	0.92	1.22	1.7	dB	0.115

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:	0.2 dB
Loss due to Connector 2:	0.2 dB
Base Weight:	0.089 pounds
Additional Weight per Inch:	0.00209 pounds

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 0.089 lbs [40.37 g]

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Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle Threaded	SMA Male Right Angle Threaded
Specification	MIL-PRF-39012	MIL-PRF-39012
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700

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

Plotted and Other Data

Notes:

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TECHNICAL DATA SHEET

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How to Order

Part Number Configuration:

PE3W06827

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

Example: PE3W06827-12 = 12 inches long cable
PE3W06827-100cm = 100 cm long cable

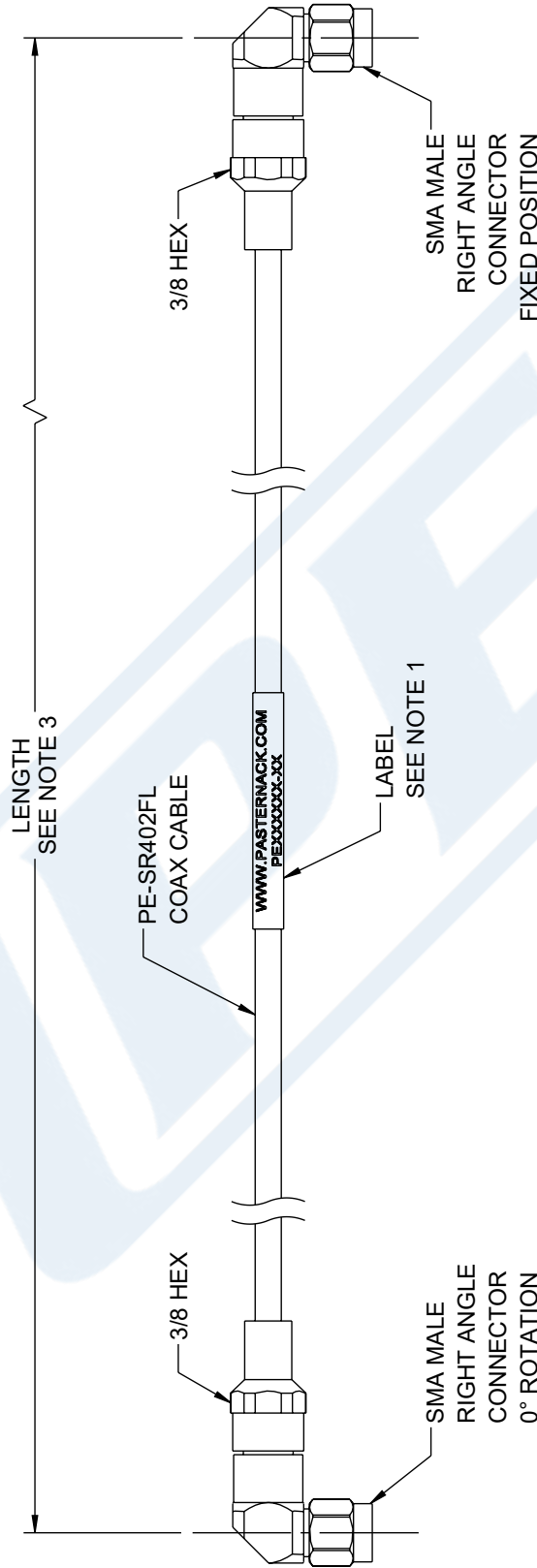
SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Male Right Angle Cable Using PE-SR402FL Coax PE3W06827](#)

URL: <https://www.pasternack.com/sma-male-sma-male-pe-sr402fl-cable-assembly-pe3w06827-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.

REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	10/17/2023
		CHANGED BY	HBAKKE
		APPROVED	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.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE	NONE
DESCRIPTION SMA MALE RIGHT ANGLE TO SMA MALE RIGHT ANGLE CABLE USING PE-SR402FL COAX		SHEET	1 OF 1
SIZE	A	CAGE CODE	53919
REV	A	ITEM NO.	PE3W06827