



SMA Male Right Angle to TNC Male Cable Using PE-SR402AL Coax

TECHNICAL DATA SHEET

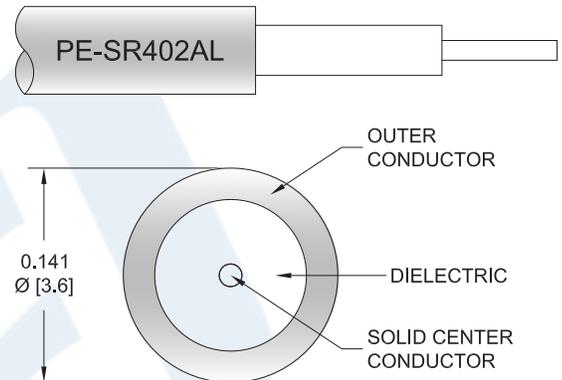
PE3W06707

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Male
- Cable Type: PE-SR402AL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06707 SMA male right angle to TNC male cable using PE-SR402AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMA to TNC cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR402AL coax. The PE3W06707 SMA male to TNC male cable assembly operates to 18 GHz. The right angle SMA interface on the PE-SR402AL 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: [SMA Male Right Angle to TNC Male Cable Using PE-SR402AL Coax PE3W06707](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	#####	MHz	
PE3W06707	Custom Lengths Available	Insertion Loss (Typ.)	0.13	0.16	0.25	0.42	0.66	dB/ft	
			0.43	0.53	0.83	1.38	2.17	dB/m	
PE3W06707-6	6 inch	Insertion Loss (Typ.)	0.37	0.38	0.43	0.51	0.63	dB	0.097
PE3W06707-12	12 inch	Insertion Loss (Typ.)	0.43	0.46	0.55	0.72	0.96	dB	0.105
PE3W06707-24	24 inch	Insertion Loss (Typ.)	0.56	0.62	0.8	1.14	1.62	dB	0.123
PE3W06707-36	36 inch	Insertion Loss (Typ.)	0.69	0.78	1.05	1.56	2.28	dB	0.14
PE3W06707-48	48 inch	Insertion Loss (Typ.)	0.82	0.94	1.3	1.98	2.94	dB	0.157

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:	0.1 dB
Base Weight:	0.105 pounds
Additional Weight per Inch:	0.00144 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Weight 0.105 lbs [47.63 g]

Cable

Cable Type	PE-SR402AL
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 Aluminum
Repeated Minimum Bend Radius	0.15 in [3.81 mm]

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Connectors

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

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

Plotted and Other Data

Notes:

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TECHNICAL DATA SHEET

PE3W06707

How to Order

Part Number Configuration:

PE3W06707

- **xx**

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

Example: PE3W06707-12 = 12 inches long cable
PE3W06707-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Cable Using PE-SR402AL 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.

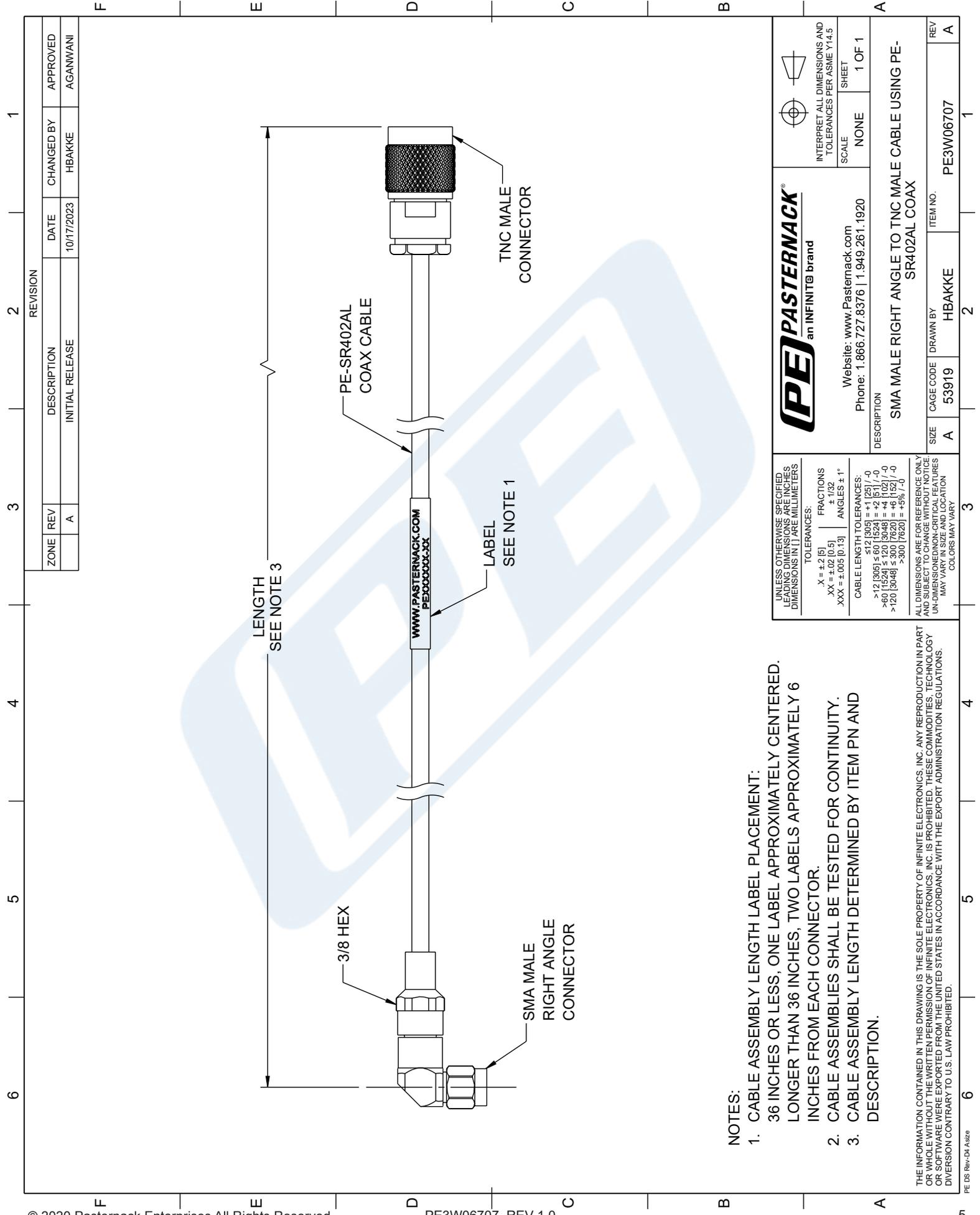
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URL: <https://www.pasternack.com/sma-male-tnc-male-pe-sr402al-cable-assembly-pe3w06707-p.aspx>

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.

PE3W06707 CAD Drawing

SMA Male Right Angle to TNC Male Cable Using PE-SR402AL Coax



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION		
	A	INITIAL RELEASE	HBAKKE	AGANWANI
			10/17/2023	

(PE) PASTERNAK
an INFINIT@ brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

UNLESS OTHERWISE SPECIFIED
LENGTHS DIMENSIONS ARE IN INCHES
DIMENSIONS IN PARENTHESSES
DIMENSIONS IN MILLIMETERS

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] = ±.125 / -0
 ≤ 120 [3048] = ±.125 / -0
 ≤ 300 [7620] = ±.125 / -0
 ≤ 60 [1524] = ±.100 / -0
 ≤ 120 [3048] = ±.100 / -0
 ≤ 300 [7620] = ±.100 / -0
 > 300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ON CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION
SMA MALE RIGHT ANGLE TO TNC MALE CABLE USING PE-SR402AL COAX

CAGE CODE 53919 DRAWN BY HBAKKE ITEM NO. PE3W06707 REV A

- NOTES:**
- 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.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
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