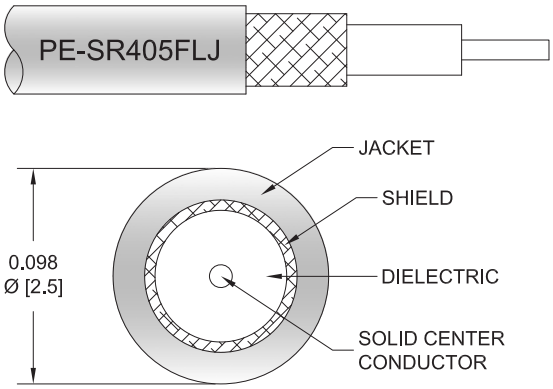
SMA Male to TNC Female Cable Using PE-SR405FLJ Coax



PE3W15039

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Female
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable



Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W15039 SMA male to TNC female 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 TNC cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W15039 SMA male to TNC female cable assembly operates to 6 GHz.

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		6	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]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	6000	MHz	
PE3W15039	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.23	0.306	0.549	0.601	dB/ft	
			0.5	0.74	1.01	1.81	1.98	dB/m	
PE3W15039-6	6 inch	Insertion Loss (Typ.)	0.28	0.32	0.36	0.48	0.51	dB	0.032
PE3W15039-9	9 inch	Insertion Loss (Typ.)	0.32	0.37	0.43	0.62	0.66	dB	0.036
PE3W15039-12	12 inch	Insertion Loss (Typ.)	0.35	0.43	0.51	0.75	0.81	dB	0.039
PE3W15039-18	18 inch	Insertion Loss (Typ.)	0.43	0.54	0.66	1.03	1.11	dB	0.047
PE3W15039-24	24 inch	Insertion Loss (Typ.)	0.5	0.65	0.82	1.3	1.41	dB	0.054

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:	0.1	dB
Base Weight:	0.039	pounds
Additional Weight per Inch:	0.00117	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.039 lbs [17.69 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 1 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	SMA Male	TNC Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	ASTM-B488	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Body Plating Specification	ASTM-B488	
Coupling Nut Material and Plating	Steel	

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3W15039 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3W15039 — Base Number

Example: PE3W15039-12 = 12 inches long cable
PE3W15039-100cm = 100 cm long cable

SMA Male to TNC Female 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 Male to TNC Female Cable Using PE-SR405FLJ Coax PE3W15039

URL: https://www.pasternack.com/sma-male-to-tnc-female-cable-using-pe-sr405flj-pe3w15039-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 impliment 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.

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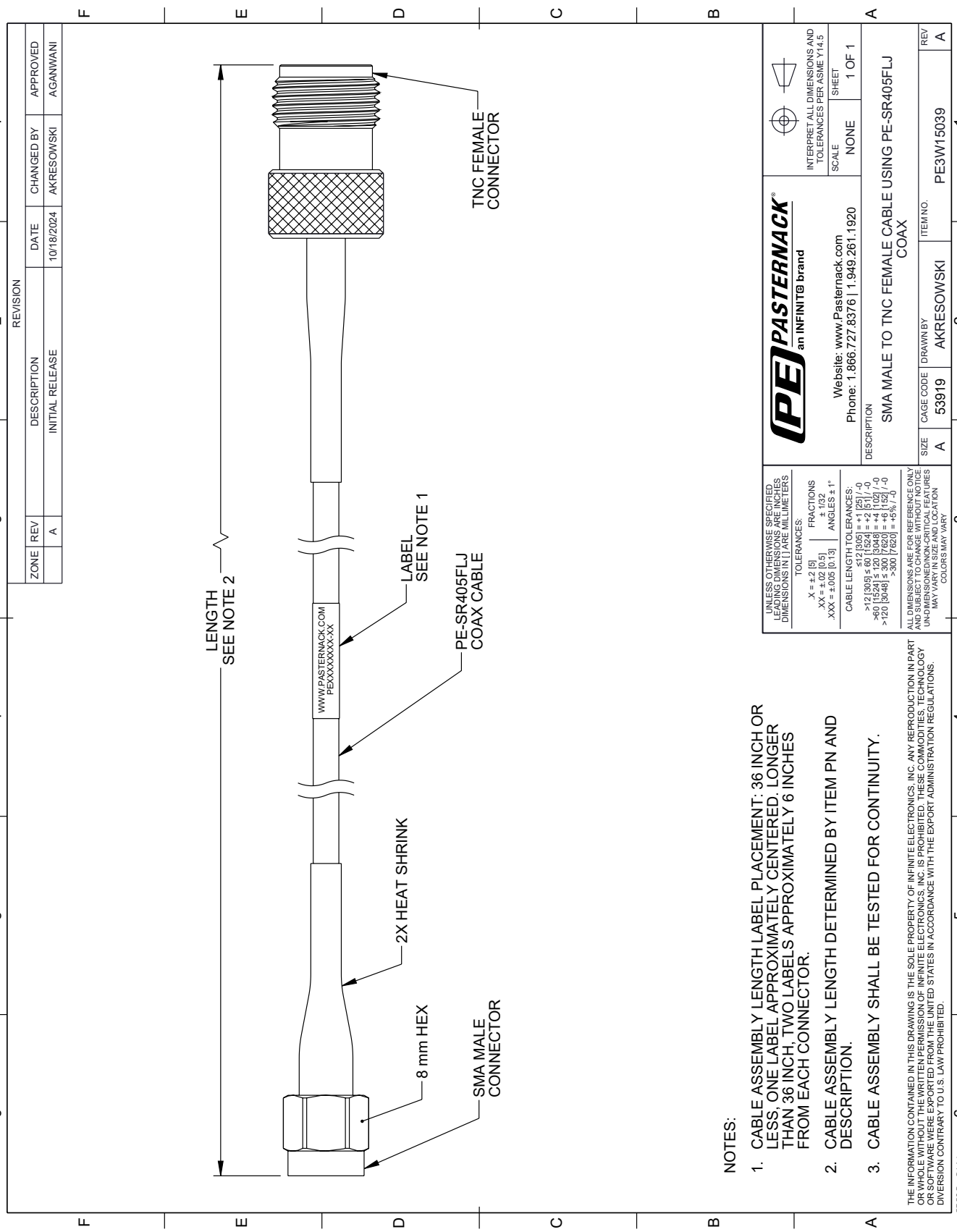
PE3W15039 CAD Drawing

SMA Male to TNC Female Cable Using PE-SR405FLJ Coax



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