



## SMA Male to TNC Male Right Angle Cable 50 cm Length Using PE-SR405FLJ Coax

### RF Cable Assemblies Technical Data Sheet

PE3W07181-50CM

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male Right Angle
- Cable Type: PE-SR405FLJ

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W07181-50CM SMA male to TNC male right angle 50 cm 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 male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W07181-50CM SMA male to TNC male cable assembly operates to 6 GHz. The right angle TNC 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.

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 Male Right Angle Cable 50 cm Length Using PE-SR405FLJ Coax PE3W07181-50CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
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]		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	4	6	GHz
Insertion Loss (Max.)	0.55	0.67	0.72	0.95	1.18	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

#### Mechanical Specifications

##### Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.591 in [15.01 mm]

##### 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 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 Male Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold over Nickel
Contact Plating Specification	50µ in. minimum	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	3µ in. minimum	
Coupling Nut Material and Plating	Brass, Gold	Brass, Nickel
Coupling Nut Plating Specification	3µ in. minimum	
Hex Size	5/16 Inch	
Torque	3 in-lbs [0.34 Nm]	

#### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

#### Plotted and Other Data

Notes:

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PE3W07181-50CM

**How to Order**

Part Number Configuration:

**PE3W07181**

- **xx**

**uu**

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

Example: PE3W07181-12 = 12 inches long cable  
PE3W07181-100cm = 100 cm long cable

SMA Male to TNC Male Right Angle Cable 50 cm Length 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 Male Right Angle Cable 50 cm Length Using PE-SR405FLJ Coax PE3W07181-50CM](https://www.pasternack.com/sma-male-tnc-male-pe-sr405flj-cable-assembly-pe3w07181-50cm-p.aspx)

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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.

# PE3W07181-50CM CAD Drawing

SMA Male to TNC Male Right Angle Cable 50 cm Length Using PE-SR405FLJ Coax

