



### RF Cable Assemblies Technical Data Sheet

### PE3W01985-50CM

## Configuration

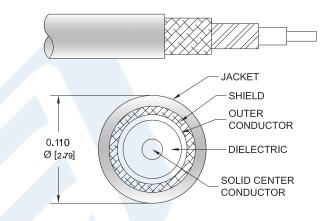
• Connector 1: SMA Male Right Angle

Connector 2: TNC Male

Cable Type: LMR-100A

#### **Features**

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- · Double Shielded
- PVC Jacket



## **Applications**

· General Purpose

· Laboratory Use

#### Description

Pasternack's PE3W01985-50CM SMA male right angle to TNC male 50 cm cable using LMR-100 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W01985-50CM SMA male to TNC male cable assembly operates to 3 GHz. The right angle SMA interface on the LMR-100A cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 50 cm Length Using LMR-100 Coax PE3W01985-50CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		, A.	1.45:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.41	0.47	0.57	0.68	0.98	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1dB per connector.

### **Mechanical Specifications**

### **Cable Assembly**

Length\* 19.69 in [500.13 mm]
Diameter 0.591 in [15.01 mm]
Weight 0.08 lbs [36.29 g]

#### Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type
Number of Shields

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket MaterialPVC, BlackJacket Diameter0.11 in [2.79 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
1 in [25.4 mm]
Bending Moment
0.1 lbs-ft [0.14 N-m]
Flat Plate Crush
10 lbs/in [0.18 Kg/mm]
Tensile Strength
15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	TNC Male	
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold	
Contact Plating Specification	50μ in. minimum		
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Silver	
Body Plating Specification	100μ in. minimum		
Coupling Nut Material and Plating	Brass, Nickel	Brass, Silver	
Coupling Nut Plating Specification	100μ in. minimum		
Hex Size	5/16 in		
Torque	3 in-lbs [0.34 Nm]		

Mechanical Specification Notes:

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

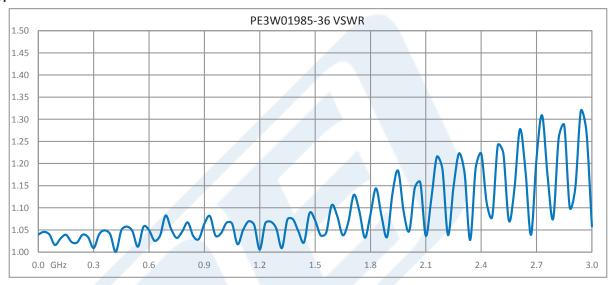


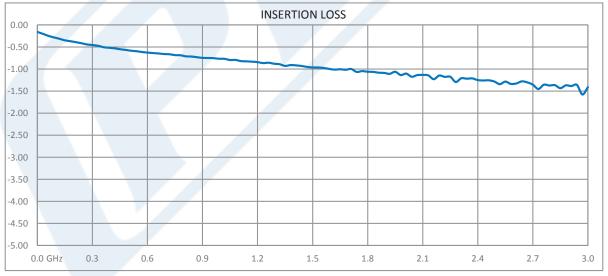


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#### **Typical Performance Data**





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#### **How to Order**



Example: PE3W01985-12 = 12 inches long cable PE3W01985-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Cable 50 cm Length Using LMR-100 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 TNC Male Cable 50 cm Length Using LMR-100 Coax PE3W01985-50CM

URL: https://www.pasternack.com/sma-male-tnc-male-Imr100-cable-assembly-pe3w01985-50cm-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.

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**PE3W01985-50CM CAD Drawing**SMA Male Right Angle to TNC Male Cable 50 cm Length Using LMR-100 Coax

