



### **RF Cable Assemblies Technical Data Sheet**

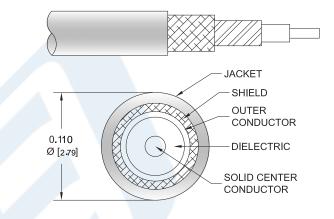
### PE3W00825-100CM

# Configuration

Connector 1: SMA FemaleConnector 2: TNC MaleCable Type: LMR-100A

### **Features**

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- · Double Shielded
- PVC Jacket



# **Applications**

General Purpose

· Laboratory Use

### Description

Pasternack's PE3W00825-100CM SMA female to TNC male 100 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 female to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W00825-100CM SMA female to TNC male cable assembly operates to 1 GHz. 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 Female to TNC Male Cable 100 cm Length Using LMR-100 Coax PE3W00825-100CM

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





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### **Electrical Specifications**

nits	n Units	Maximu	Typical	Minimum	Description
1Hz	MHz	1,000		DC	Frequency Range
		1.5:1	7,000		VSWR
%	%		66		Velocity of Propagation
dΒ	dB			90	RF Shielding
[ns/m]	ns/ft [ns/i		1.54 [5.05]		Group Delay
[pF/m]	pF/ft [pF/		30.8 [101.05]		Capacitance
[uH/m]	uH/ft [uH/		0.077 [0.25]		Inductance
ft [Ω/Km]	Ω/1000ft [Ω		81 [265.75]		DC Resistance Inner Conductor
ft [Ω/Km]	Ω/1000ft [Ω		9.5 [31.17]		DC Resistance Outer Conductor
rms	Vrms	2,000			Jacket Spark
-		2,000	3.3 [51.17]		

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.36	0.42	0.58	0.71	0.96	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 0.1 dB per connector.

### **Mechanical Specifications**

### **Cable Assembly**

Length\* 39.37 in [100 cm]
Diameter 0.591 in [15.01 mm]

#### Cable

Cable Type LMR-100A Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type PE
Number of Shields 2

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 Female	TNC Male	
Specification	MIL-STD-348	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	100		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification		30μ in. minimum	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification		100µ in. minimum	

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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### **RF Cable Assemblies Technical Data Sheet**

### PE3W00825-100CM

#### **How to Order**



Example: PE3W00825-12 = 12 inches long cable

PE3W00825-100cm = 100 cm long cable

SMA Female to TNC Male Cable 100 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 Female to TNC Male Cable 100 cm Length Using LMR-100 Coax PE3W00825-100CM

URL: https://www.pasternack.com/sma-female-tnc-male-lmr100-cable-assembly-pe3w00825-100cm-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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PE3W00825-100CM CAD Drawing
SMA Female to TNC Male Cable 100 cm Length Using LMR-100 Coax

