



RF Cable Assemblies Technical Data Sheet

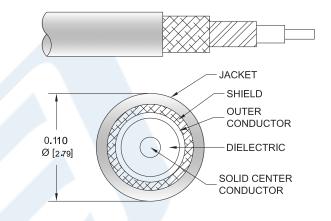
PE3W00825

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 SMA female to TNC male 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 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 Using LMR-100 Coax PE3W00825

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





RF Cable Assemblies Technical Data Sheet

PE3W00825

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR		/ All	1.5:1	
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	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.05	0.07	0.12	0.16	0.24	dB/ft
	0.16	0.23	0.39	0.52	0.79	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.591 in [15.01 mm]
Weight 0.035 lbs [15.88 g]

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

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 Using LMR-100 Coax PE3W00825

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





RF Cable Assemblies Technical Data Sheet

PE3W00825

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

One Time Minimum Bend Radius0.25 in [6.35 mm]Repeated Minimum Bend Radius1 in [25.4 mm]Bending Moment0.1 lbs-ft [0.14 N-m]Flat Plate Crush10 lbs/in [0.18 Kg/mm]Tensile Strength15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2 TNC Male	
Туре	SMA Female		
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:

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 Using LMR-100 Coax PE3W00825

^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





RF Cable Assemblies Technical Data Sheet

PE3W00825

Typical Performance Data



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 Using LMR-100 Coax PE3W00825





RF Cable Assemblies Technical Data Sheet

PE3W00825

How to Order



Example: PE3W00825-12 = 12 inches long cable

PE3W00825-100cm = 100 cm long cable

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

URL: https://www.pasternack.com/sma-female-tnc-male-lmr100-cable-assembly-pe3w00825-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.

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

PE3W00825 CAD DrawingSMA Female to TNC Male Cable Using LMR-100 Coax

