

## SMA Male to TNC Male Low Loss Cable Using PE-C100-LSZH Coax with Times Microwave Components



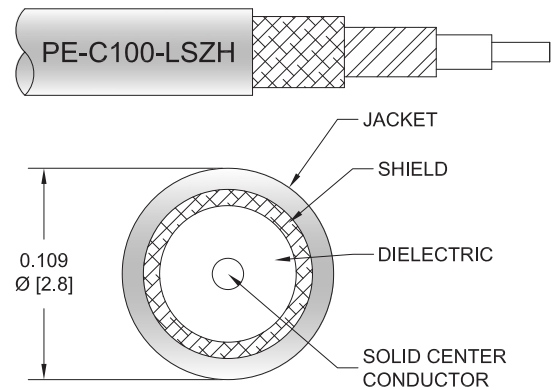
### PE3C5637

#### Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: PE-C100-LSZH
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- LSZH Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C5637 SMA male to TNC male cable using PE-C100-LSZH 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 PE-C100-LSZH coax. The PE3C5637 SMA male to TNC male cable assembly operates to 6 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.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.62 [5.31]		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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C5637	Custom Lengths Available	Insertion Loss (Typ.)	0.115	0.165	0.24	0.398	0.627	dB/ft	
			0.38	0.55	0.79	1.31	2.06	dB/m	
PE3C5637-24	24 Inch	Insertion Loss (Typ.)	0.53	0.66	0.83	1.21	1.75	dB	0.073
PE3C5637-36	36 Inch	Insertion Loss (Typ.)	0.65	0.82	1.07	1.61	2.38	dB	0.083
PE3C5637-48	48 Inch	Insertion Loss (Typ.)	0.76	0.99	1.31	2.01	3	dB	0.093
PE3C5637-100CM	100 CM	Insertion Loss (Typ.)	0.68	0.87	1.14	1.72	2.55	dB	0.086
PE3C5637-200CM	200 CM	Insertion Loss (Typ.)	1.06	1.41	1.93	3.02	4.61	dB	0.118

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:	0.25 dB
Loss due to Connector 2:	0.1*SQRT(FGHz) dB
Base Weight:	0.063 pounds
Additional Weight per Inch:	0.1575 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.063 lbs [28.58 g]

##### Cable

Cable Type	PE-C100-LSZH
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
Jacket Material	LSZH, Black
Jacket Diameter	0.109 in [2.77 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
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]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	15 µin minimum	15 µin minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	200 µin minimum	100 µin minimum

#### Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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### PE3C5637

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C5637**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C5637-12 = 12 inches long cable  
PE3C5637-100cm = 100 cm long cable

SMA Male to TNC Male Low Loss Cable Using PE-C100-LSZH Coax with Times Microwave Components 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 Low Loss Cable Using PE-C100-LSZH Coax with Times Microwave Components PE3C5637](#)

URL: <https://www.pasternack.com/sma-male-to-tnc-male-low-loss-cable-using-pe-c100-lszh-pe3c5637-p.aspx>

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# PE3C5637 CAD Drawing

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