



## SMA Male to SMA Male Low Loss Cable Using LMR-100A-UF Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C8634**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: LMR-100A-UF

#### Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C8634 SMA male to SMA male cable using LMR-100A-UF 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3C8634 SMA male to SMA male cable assembly operates to 5.8 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 Male to SMA Male Low Loss Cable Using LMR-100A-UF Coax PE3C8634](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.115	0.165	0.24	0.398	0.641	dB/ft
	0.38	0.54	0.79	1.31	2.1	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

Weight 0.032 lbs [14.51 g]

##### Cable

Cable Type LMR-100A-UF  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Aluminum Tape  
Shield Layer 2 Tinned Copper  
Jacket Material TPE, Black  
Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]

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Repeated Minimum Bend Radius  
Bending Moment  
Flat Plate Crush  
Tensile Strength

1 in [25.4 mm]  
0.1 lbs-ft [0.14 N-m]  
10 lbs/in [0.18 Kg/mm]  
15 lbs [6.8 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]

#### Environmental Specifications

##### Temperature

Operating Range

-40 to +85 deg C

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

#### Plotted and Other Data

Notes:

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## SMA Male to SMA Male Low Loss Cable Using LMR-100A-UF Coax

### RF Cable Assemblies Technical Data Sheet

**PE3C8634**

#### How to Order

Part Number Configuration:

**PE3C8634**

- **xx**

**uu**

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

Example: PE3C8634-12 = 12 inches long cable  
PE3C8634-100cm = 100 cm long cable

SMA Male to SMA Male Low Loss Cable Using LMR-100A-UF 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 SMA Male Low Loss Cable Using LMR-100A-UF Coax PE3C8634](#)

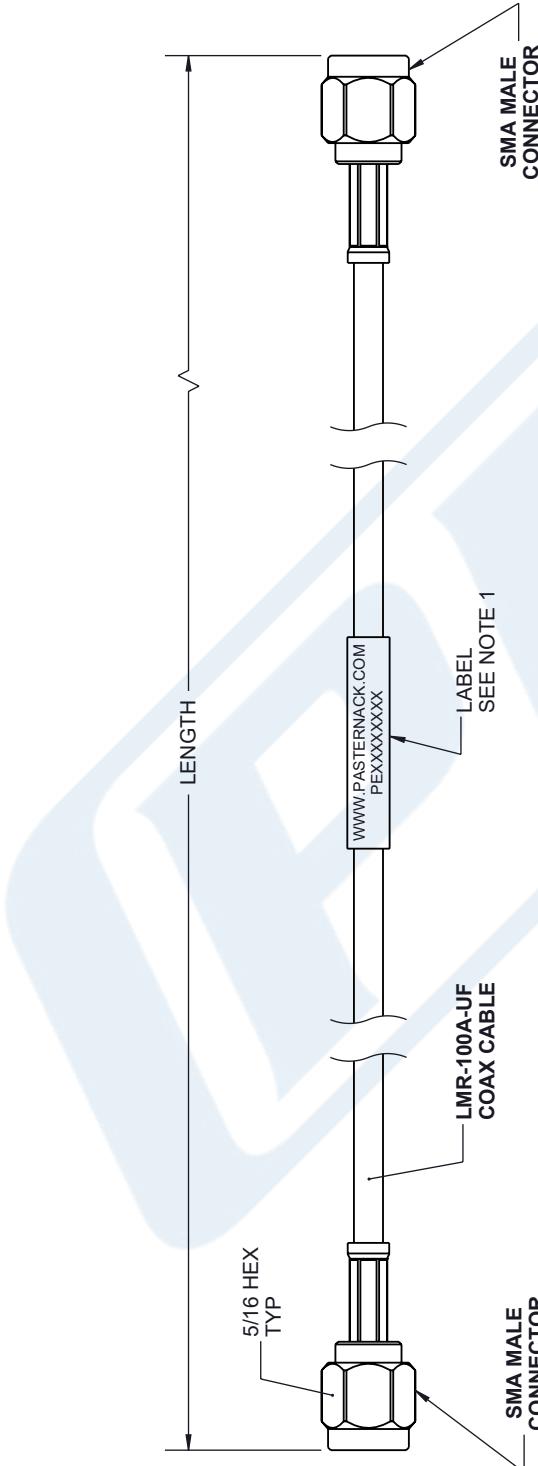
URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-100a-uf-pe3c8634-p.aspx>

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PE3C8634 CAD Drawing

## SMA Male to SMA Male Low Loss Cable Using LMR-100A-UF Coax

ZONE	REV.	DESCRIPTION	REV. VERSION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE		12/16/2022	KDANG	AGANWANI



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.  
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.

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 <b>PASTERNACK®</b> an INFINITI® brand			
<p>OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES IN [ ] ARE MILLIMETERS</p> <p><b>TO LARENS:</b></p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE SHEET 1 OF 1</p>	
[5]	FRACTIONS $\pm 1/32$	ANGLES $\pm 1^\circ$	WEBSITE: <a href="http://www.Pasternack.com">www.Pasternack.com</a>
[2.5]	[5.13]		PHONE: 1.866.727.8376   1.949.261.1920
<p>LENGTH TOLERANCES:</p>		<p>DESCRIPTION</p>	
$>12[305] = +1[25] / -0$ $[5] \leq 60 = +2[5] / -0$ $[5] \leq 120 = +4[102] / -0$		<p>SMA Male to SMA Male Low Loss Cable Using LMR-100A-UJ Coax</p>	
SIZE A	CAGE CODE 53919	DRAWN BY KDANG	ITEM NO. PE3C8634
<p>ONLY FOR REFERENCE DO NOT CHANGE WITHOUT NOTICE.</p>		<p>REV A</p>	