



SMA Female to SMA Female Low Loss
Cable Using PE-C100-LSZH Coax

TECHNICAL DATA SHEET

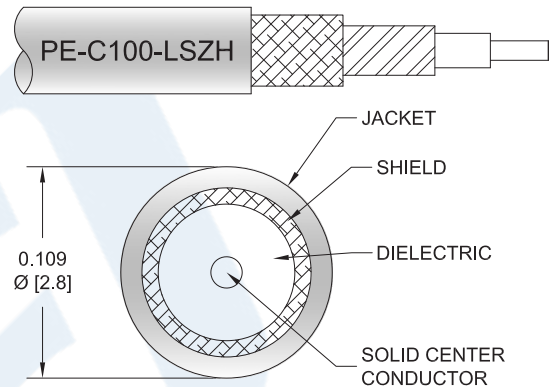
PE39326

Configuration

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

Features

- Max Frequency 5 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket
- 100 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39326 SMA female to SMA female cable using PE-C100 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 female to female gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE39326 SMA female to SMA female cable assembly operates to 5 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 SMA Female Low Loss Cable Using PE-C100-LSZH Coax PE39326](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	5000	MHz	
PE39326	Custom Lengths Available	Insertion Loss (Typ.)	0.12	0.17	0.24	0.41	0.6	dB/ft	
			0.38	0.55	0.79	1.33	1.97	dB/m	
PE39326-12	12 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.61	0.8	dB	0.024
PE39326-24	24 inch	Insertion Loss (Typ.)	0.43	0.54	0.68	1.01	1.4	dB	0.035
PE39326-36	36 inch	Insertion Loss (Typ.)	0.55	0.7	0.92	1.42	2	dB	0.045
PE39326-48	48 inch	Insertion Loss (Typ.)	0.66	0.87	1.16	1.82	2.6	dB	0.055
PE39326-60	60 inch	Insertion Loss (Typ.)	0.78	1.03	1.4	2.23	3.2	dB	0.065

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.024 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.024 lbs [10.89 g]

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TECHNICAL DATA SHEET

PE39326

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	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female Threaded	SMA Female Threaded
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Mating Cycles	100	100
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel

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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TECHNICAL DATA SHEET

PE39326

How to Order

Part Number Configuration:

PE39326

- **xx**

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

Example: PE39326-12 = 12 inches long cable
PE39326-100cm = 100 cm long cable

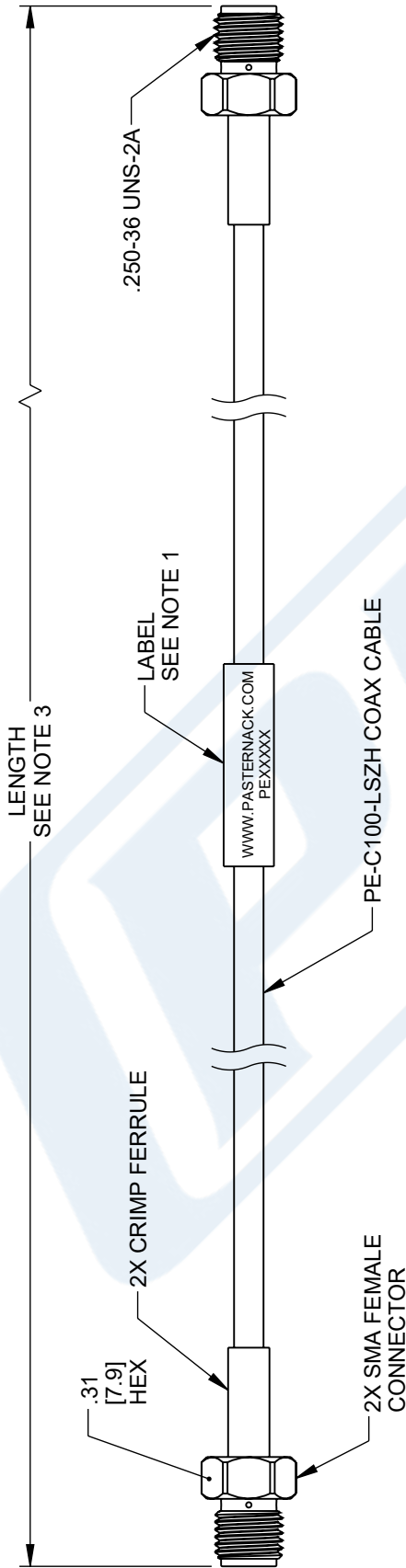
SMA Female to SMA Female Low Loss Cable Using PE-C100-LSZH Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 SMA Female Low Loss Cable Using PE-C100-LSZH Coax PE39326](https://www.pasternack.com/sma-female-to-sma-female-low-loss-cable-using-pe-c100-lszh-pe39326-p.aspx)

URL: <https://www.pasternack.com/sma-female-to-sma-female-low-loss-cable-using-pe-c100-lszh-pe39326-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.

REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	10/10/2023
		CHANGED BY	DMAY
		APPROVED	AGANWANI



- NOTES:
1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:	FRACTIONS	ANGLES
.X ± .02 [0.5]	± 1/32	± 1°
.XXX ± .005 [0.13]		

CABLE LENGTH TOLERANCES:

<12 [305]	± .1 [2.5] / -0
>12 [305] ≤ 60 [1524]	± .2 [5] / -0
>60 [1524] ≤ 120 [3048]	± .4 [10] / -0
>120 [3048] ≤ 300 [7620]	± .6 [15] / -0
>300 [7620]	± .8 [20] / -0

DESCRIPTION
SMA FEMALE TO SMA FEMALE LOW LOSS CABLE USING PE-C100-LSZH COAX

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

ITEM NO. PE39326

REV A