



SMA Male to SMA Male Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

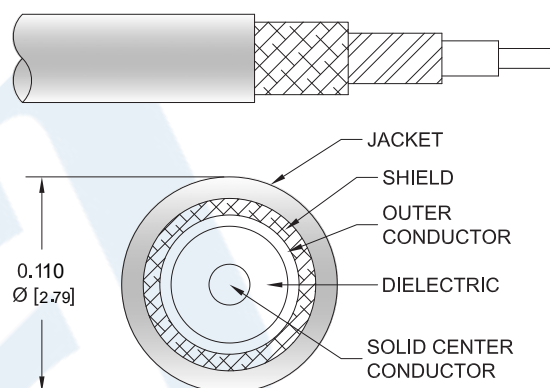
PE3C9298

Configuration

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

Features

- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C9298 SMA male to SMA 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A coax. 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-100 Coax PE3C9298](#)



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Electrical Specifications

Description		Minimum		Typical		Maximum		Units
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
Insertion Loss (Typ.)	0.115	0.165	0.24	0.38	0.641			dB/ft
	0.38	0.54	0.79	1.25	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 0.036 lbs [16.33 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
 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]
 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	SMA Male
Impedance	50 Ohms	50 Ohms
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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How to Order

Part Number Configuration:

PE3C9298

- **xx**

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

Example: PE3C9298-12 = 12 inches long cable
PE3C9298-100cm = 100 cm long cable

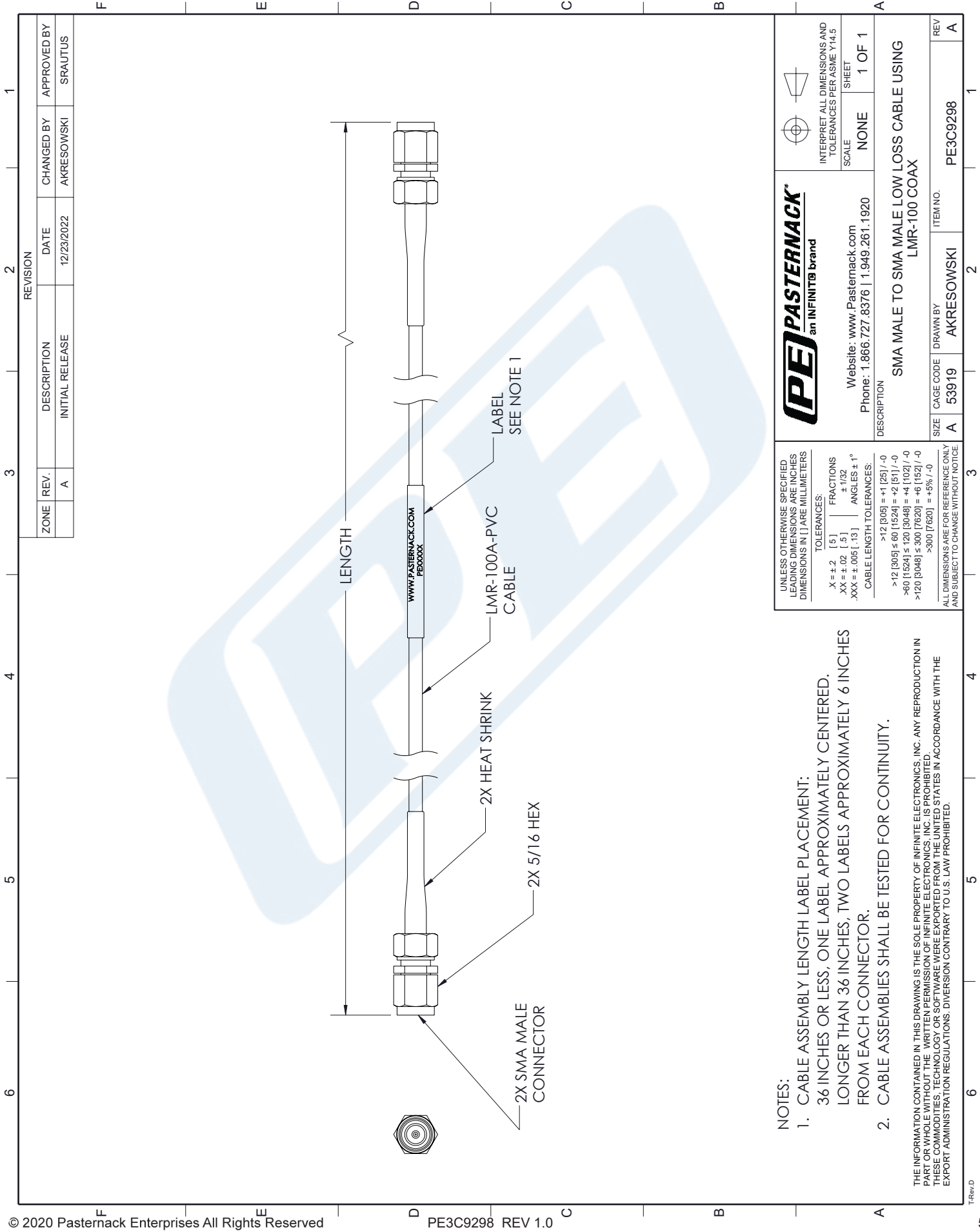
SMA Male to SMA Male Low Loss Cable Using LMR-100 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Low Loss Cable Using LMR-100 Coax PE3C9298](https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-100-pe3c9298-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-100-pe3c9298-p.aspx>

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PE3C9298 CAD Drawing
SMA Male to SMA Male Low Loss Cable Using LMR-100 Coax



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.
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X = ± .2 [.5]	± 1/32
.XX = ± .02 [.5]	ANGLES ± 1°
.XXX = ± .005 [.13]	CABLE LENGTH TOLERANCES:
	>12 [305] = ±1 [25] / -0
	>12 [305] ≤ 60 [1524] = ±2 [51] / -0
	>60 [1524] ≤ 120 [3048] = ±4 [102] / -0
	>120 [3048] ≤ 300 [7620] = ±6 [152] / -0
	>300 [7620] = ±5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	

 PASTERNAK® an INFINITI® brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920			
DESCRIPTION SMA MALE TO SMA MALE LOW LOSS CABLE USING LMR-100 COAX				INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
				SCALE	SHEET
				NONE	1 OF 1
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	53919	AKRESOWSKI	PE3C9298	A	