



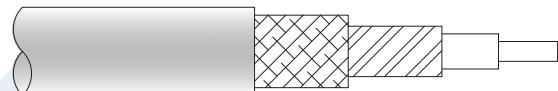
SMA Male to SMA Female Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3W04968

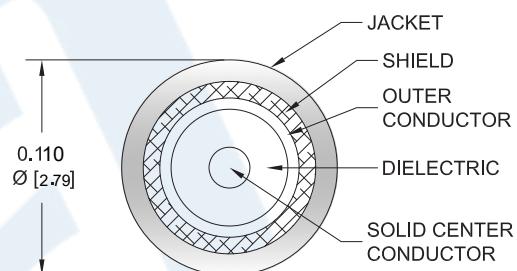
Configuration

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



Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04968 SMA male to SMA female 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 female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W04968 SMA male to SMA female 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 Female Low Loss Cable Using LMR-100 Coax PE3W04968](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
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 0.03 lbs [13.61 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]

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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]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		50 μ in. minimum
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Brass, Gold
Outer Conductor Plating Specification		3 μ in. minimum
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3 μ in. minimum
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 in	
Torque	5 in-lbs [0.57 Nm]	

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W04968

How to Order

Part Number Configuration:

PE3W04968

- xx

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

Example: PE3W04968-12 = 12 inches long cable
PE3W04968-100cm = 100 cm long cable

SMA Male to SMA Female 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.

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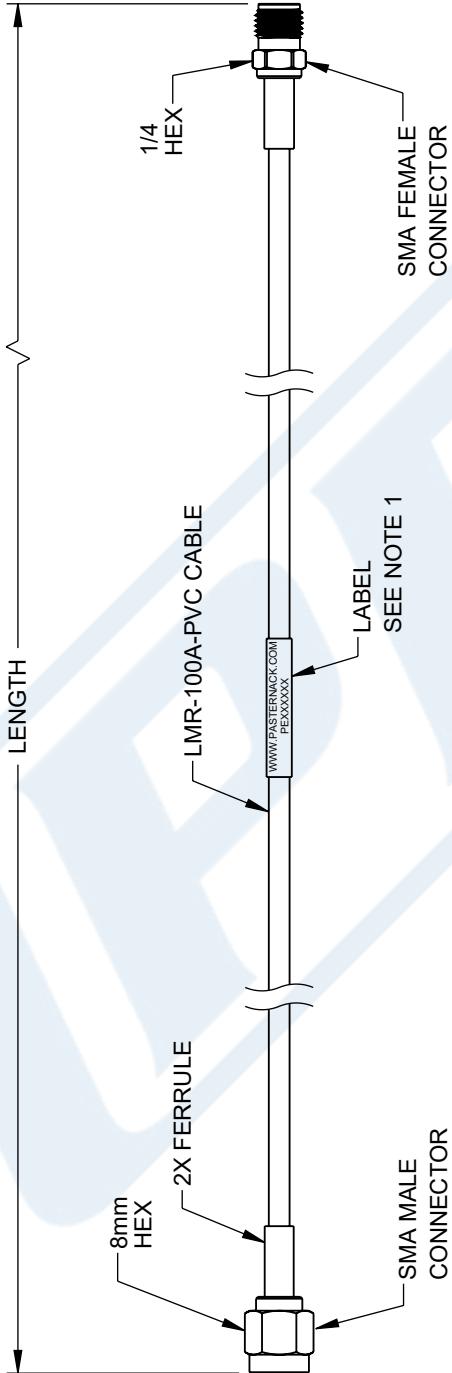
URL: <https://www.pasternack.com/sma-male-to-sma-female-low-loss-cable-using-lmr-100-pe3w04968-p.aspx>

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.

PE3W04968 CAD Drawing

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

ZONE	REV.	DESCRIPTION	REVISION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE		04/19/2023	BPUCHASKI	AGANVANI



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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<p>OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="1"> <tr> <td>[5]</td><td>FRACTIONS</td></tr> <tr> <td>2. [5]</td><td>$\pm 1/32$</td></tr> <tr> <td>5</td><td>ANGLES $\pm 1^\circ$</td></tr> <tr> <td>20 [30]</td><td>LENGTH TOLERANCES:</td></tr> </table>		[5]	FRACTIONS	2. [5]	$\pm 1/32$	5	ANGLES $\pm 1^\circ$	20 [30]	LENGTH TOLERANCES:	<p>PASTERACK® an INFINITI® brand</p>		 	<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SHEET</p>	<p>1 OF 1</p>
[5]	FRACTIONS													
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		<p>Website: www.Pasterack.com</p> <p>Phone: 1.866.727.8376 1.949.261.1920</p>	<p>DESCRIPTION</p> <p>SMA Male to SMA Female Low Loss Cable Using LMR-100 Coax</p>	<p>ITEM NO.</p> <p>PE3W04968</p>	<p>SIZE</p> <p>A</p>	<p>CAGE CODE</p> <p>53919</p>	<p>DRAWN BY</p> <p>BPUCHASKI</p>	<p>REV</p> <p>A</p>						
		<p>\$12.00 [30.5] = +1 [25] / -0</p> <p>\$15.00 [38.1] = +2 [5] / -0</p> <p>\$15.00 [38.1] = +4 [102] / -0</p> <p>\$15.00 [38.1] = +6 [152] / -0</p> <p>\$15.00 [38.1] = +5% [76.2] / -0</p> <p>>300 [762] = -5% [192] / -0</p>												