

SMA Male to SSMC Plug Right Angle Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: SMA Male
- Connector 2: SSMC Plug Right Angle
- Cable Type: LMR-100A

Features

- SSMC Cable Assembly Max. Operating Frequency of 3 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship

Applications

- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

Description

Pasternack's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Pasternack's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	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]

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 SSMC Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3C4423

PE3C4423 REV 1.0

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 **Sales@Pasternack.com** • Techsupport@Pasternack.com

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Description	FI	F2	FJ			
Frequency	0.25	0.5	1	2.5	3	GHz
						dB/m
nsertion Loss (Typ.)	0.12	0.17	0.24	0.4	0.44	dB/ft
	0.39	0.56	0.79	1.31	1.44	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 Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 0.315 in [8 mm]

LMR-100A 50 Ohms Solid Copper Clad Steel PE 2 Aluminum Tape Tinned Copper Braid PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm] 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]

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Connectors

Description	Connector 1	Connector 2 SSMC Plug Right Angle	
Туре	SMA Male		
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold	
Contact Plating Specification	30 µin minimum	MIL-G-45204	
Dielectric Type	PTFE	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Gold	
Body Plating Specification	100 µin minimum	MIL-G-45204	
Coupling Nut Material and Plating	Brass, Nickel	Beryllium Copper, Gold	
Coupling Nut Plating Specification	100 µin minimum	MIL-G-45204	
Hex Size	5/16 inch		
Torque	3 in-lbs [0.34 Nm]	1.75 in-lbs [0.2 Nm]	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8$ ", whichever is greater.

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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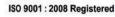
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How to Order PE3C4423 Part Number Configuration: - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** Example: PE3C4423-12 = 12 inches long cable PE3C4423-100cm = 100 cm long cable SMA Male to SSMC Plug Right Angle Low 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 SSMC Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3C4423 URL: https://www.pasternack.com/sma-male-ssmc-plug-Imr100-cable-assembly-pe3c4423-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.

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PE3C4423 CAD Drawing SMA Male to SSMC Plug Right Angle Low Loss Cable Using LMR-100 Coax

