



SMA Female to SSMC Plug Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4426

Configuration

Connector 1: SMA FemaleConnector 2: SSMC PlugCable Type: LMR-100A

Features

- SSMC Cable Assembly Max. Operating Frequency of 5.8 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		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]

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 SSMC Plug Low Loss Cable Using LMR-100 Coax PE3C4426

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



Jacket Spark



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F1	F2	F3	F4	F5	Units
0.25	0.5	1	2.5	5.8	GHz
					dB/m
0.12	0.17	0.24	0.4	0.64	dB/ft
0.39	0.56	0.79	1.31	2.1	dB/m
	F1 0.25	F1 F2 0.25 0.5 0.12 0.17	F1 F2 F3 0.25 0.5 1 0.12 0.17 0.24	F1 F2 F3 F4 0.25 0.5 1 2.5 0.12 0.17 0.24 0.4	Part F2 F3 F4 F5 0.25 0.5 1 2.5 5.8 0.12 0.17 0.24 0.4 0.64

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 0.312 in [7.92 mm]

Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel
Dielectric Type PE

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

Connector 1	Connector 2		
SMA Female	SSMC Plug		
MIL-STD-348			
50 Ohms	50 Ohms		
100	500		
Beryllium Copper, Gold	Beryllium Copper, Gold		
ASTM-B488	MIL-G-45204		
PTFE	Teflon		
Brass, Nickel	Beryllium Copper, Gold		
ASTM-B689	MIL-G-45204		
	Beryllium Copper, Gold		
	MIL-G-45206		
	1.75 in-lbs [0.2 Nm]		
	MIL-STD-348 50 Ohms 100 Beryllium Copper, Gold ASTM-B488 PTFE Brass, Nickel		

Mechanical Specification Notes:

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



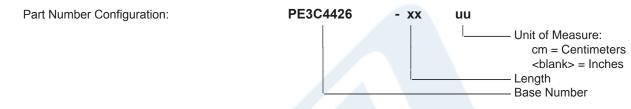


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How to Order



Example: PE3C4426-12 = 12 inches long cable PE3C4426-100cm = 100 cm long cable

SMA Female to SSMC Plug 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 Female to SSMC Plug Low Loss Cable Using LMR-100 Coax PE3C4426

URL: https://www.pasternack.com/sma-female-ssmc-plug-lmr100-cable-assembly-pe3c4426-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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PE3C4426 CAD DrawingSMA Female to SSMC Plug Low Loss Cable Using LMR-100 Coax

