



SSMA Plug to SSMA Plug Right Angle Low Loss Cable 60 Inch Length Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4420-60

Configuration

- Connector 1: SSMA Plug
- Connector 2: SSMA Plug Right Angle
- Cable Type: LMR-100A

Features

- SSMA Cable Assembly Max. Operating Frequency of 5.8 GHz
- Small SSMA cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship

Applications

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

Description

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

Our SSMA 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 SSMA 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			1.6:1	
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: [SSMA Plug to SSMA Plug Right Angle Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4420-60](#)



SSMC Plug to SSMC Plug Right Angle Low Loss
Cable 60 Inch Length Using LMR-100 Coax

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.8	1.05	1.4	2.19	3.41	dB

Mechanical Specifications

Cable Assembly

Length*	60 in [152.4 cm]
Diameter	0.156 in [3.96 mm]

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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug to SSMC Plug Right Angle Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4420-60](#)



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Connectors

Description	Connector 1	Connector 2
Type	SSMC Plug	SSMC Plug Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	Teflon	Teflon
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Plating Specification	MIL-G-45206	MIL-G-45204
Torque	1.75 in-lbs [0.2 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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How to Order

Part Number Configuration:

PE3C4420

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

Example: PE3C4420-12 = 12 inches long cable
PE3C4420-100cm = 100 cm long cable

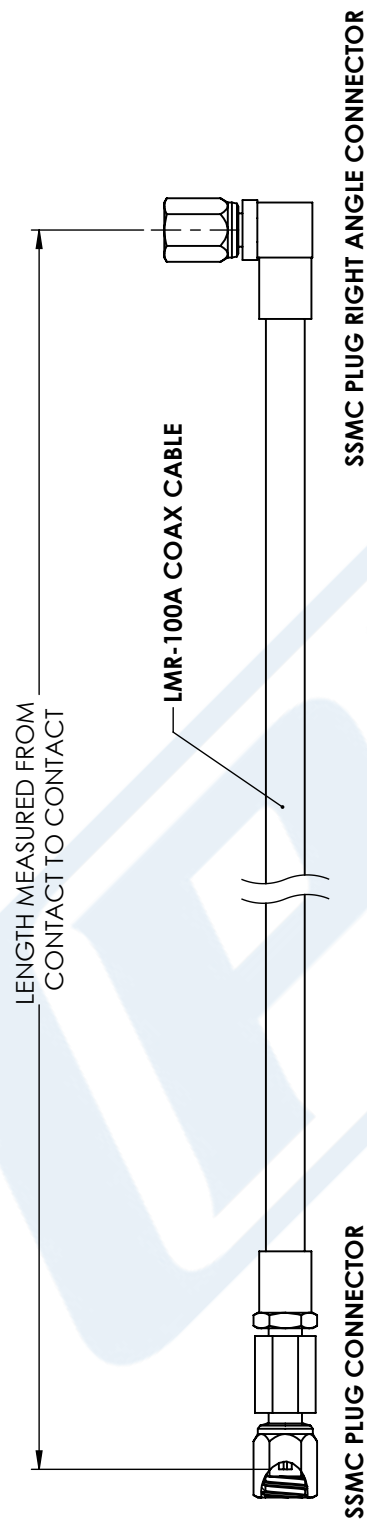
SSMC Plug to SSMC Plug Right Angle Low Loss Cable 60 Inch Length Using LMR-100 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SSMC Plug to SSMC Plug Right Angle Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4420-60](https://www.pasternack.com/ssmc-plug-ssmc-plug-lmr100-cable-assembly-pe3c4420-60-p.aspx)

URL: <https://www.pasternack.com/ssmc-plug-ssmc-plug-lmr100-cable-assembly-pe3c4420-60-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.

PE3C4420-60 CAD Drawing
SSMC Plug to SSMC Plug Right Angle Low Loss Cable
60 Inch Length Using LMR-100 Coax



STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE
PE3C4420

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

CAGE CODE 53919	CAD FILE 09/04/17	SCALE N/A	SIZE A	CN2245
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