



SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4428-60

Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: SSMC Plug
- Cable 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			1.6:1	
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: [SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4428-60](#)


**SMA Female Bulkhead to SSMC Plug Low Loss
Cable 60 Inch Length Using LMR-100 Coax**
RF Cable Assemblies Technical Data Sheet
PE3C4428-60

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.)	0.8	1.05	1.4	2.19	3.41	dB

Mechanical Specifications
Cable Assembly

Length*	60 in [152.4 cm]
Diameter	0.312 in [7.92 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: [SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4428-60](#)



SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4428-60

Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	SSMC Plug
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type		Teflon
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Body Plating Specification	QQ-N-290	MIL-G-45204
Coupling Nut Material and Plating		Beryllium Copper, Gold
Coupling Nut Plating Specification		MIL-G-45206
Torque		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.

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4428-60](#)



SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3C4428-60

How to Order

Part Number Configuration:

PE3C4428

- xx

uu

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

Example: PE3C4428-12 = 12 inches long cable
PE3C4428-100cm = 100 cm long cable

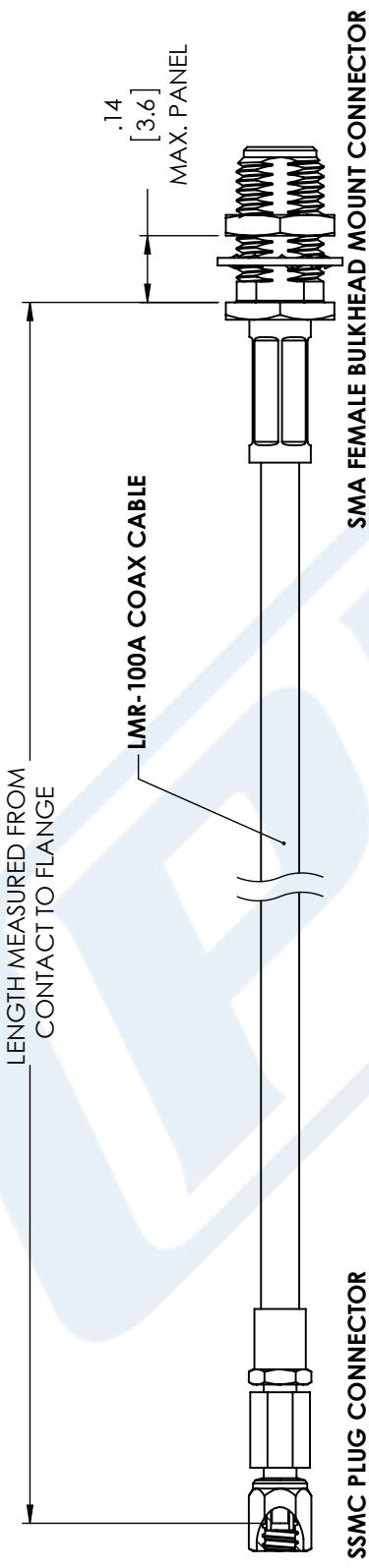
SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to SSMC Plug Low Loss Cable 60 Inch Length Using LMR-100 Coax PE3C4428-60](#)

URL: <https://www.pasternack.com/sma-female-ssmc-plug-lmr100-cable-assembly-pe3c4428-60-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.

PE3C4428-60 CAD Drawing
 SMA Female Bulkhead to SSMC Plug 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



Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE	PE3C4428	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	09/05/17	SCALE	N/A	SIZE	A
							CN2245