PASTERNACK®
THE ENGINEER'S RF SOURCE

SSMC Plug to TNC Male Low Loss Cable
18 Inch Length Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet   PE3C4434-18

Configuration
- Connector 1: SSMC Plug
- Connector 2: TNC Male
- Cable Type: LMR-100A

Features
- SSMC Cable Assembly Max. Operating Frequency of 500 MHz
- 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		500	MHz
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: SSMC Plug to TNC Male Low Loss Cable 18 Inch Length Using LMR-100 Coax PE3C4434-18

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Jacket Spark		2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	150	220	500		MHz
Insertion Loss (Typ.)	0.23	0.25	0.26	0.29		dB

Mechanical Specifications

Cable Assembly
Length*   18 in [457.2 mm]
Diameter   0.591 in [15.01 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]

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Connectors

Description	Connector 1	Connector 2
Type	SSMC Plug	TNC Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Body Plating Specification	MIL-G-45204	100 µin minimum
Coupling Nut Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Coupling Nut Plating Specification	MIL-G-45206	100 µin minimum
Torque	1.75 in-lbs [0.2 Nm]	

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 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: **PE3C4434**   **- xx**   **uu**

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

Example: PE3C4434-12 = 12 inches long cable
            PE3C4434-100cm = 100 cm long cable

SSMC Plug to TNC Male Low Loss Cable 18 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 TNC Male Low Loss Cable 18 Inch Length Using LMR-100 Coax PE3C4434-18

URL: https://www.pasternack.com/ssmc-plug-tnc-male-lmr100-cable-assembly-pe3c4434-18-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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PE3C4434-18 CAD Drawing
SSMC Plug to TNC Male Low Loss Cable 18 Inch Length Using LMR-100 Coax

TNC MALE CONNECTOR

LMR-100A COAX CABLE

LENGTH MEASURED FROM CONTACT TO CONTACT

SSMC PLUG CONNECTOR

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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

SIZE **A**	CN2245	
SCALE **N/A**		
CAD FILE	09/05/17	

DWG TITLE
PE3C4434

CAGE CODE **53919**

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