

LCCA30378-FT1.5



Configuration

Connector 1: SMA MaleConnector 2: TNC MaleCable Type: CA-100

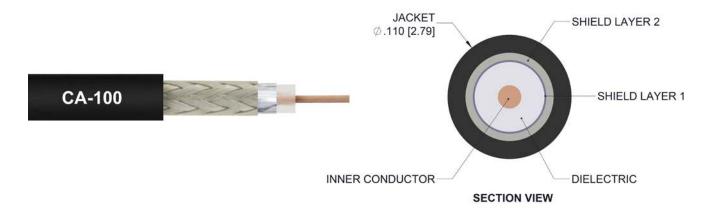
Features

- Max Frequency 0.5 GHz
- LMR-100 Equivalent
- Shielding Effectivity > 90 dB
- 66% Phase Velocity

Applications

- General Purpose
- · Laboratory Use
- · Antenna Installations

- · Low Insertion Loss
- Double Shielded
- PVC Jacket
- Land Mobile Radio & Other Communication Systems
- · Cellular & Wi-Fi Systems



Description

L-com's LCCA30378-FT1.5 is a low loss SMA male to TNC male cable assembly using 100 series coax, 1.5 FT and ships same-day. The CA-100 coax of this SMA cable uses the PE dielectric with a VoP of 66%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to TNC cable assembly has a male to male gender configuration with flexible CA-100 series coax and operates to 500 MHz. The double shield of this SMA cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB.

Custom versions of this SMA male to SMA male cable, along with the rest of L-com's other RF assemblies, can also be built and shipped same day. Other available RF cable assembly value added services from L-com include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly. Contact a sales representative for testing or custom RF cable quotes. Part number LCCA30378-FT1.5 L-com Low Loss SMA Male to TNC Male Cable Assembly using 100 Series Coax, 1.5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		500	MHz
VSWR			1.5:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
DC Resistance Inner Conductor	r	81.07 [265.98]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conducto	r	9.51 [31.2]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500		MHz
Insertion Loss (Typ.)	0.29	0.32	0.4	0.47		dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in the assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length 18 in [457.2 mm]
Diameter 0.591 in [15.01 mm]

Cable

Cable TypeCA-100Impedance50 OhmsInner Conductor TypeSolid

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 0.55 in [13.97 mm]
Repeated Minimum Bend Radius 1 in [25.4 mm]



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Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	TNC Male		
Specification	MIL-STD-348A	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Brass, Gold	Brass, Gold		
Contact Plating Specification	30 μin minimum	30 μin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Nickel	Brass, Nickel		
Body Plating Specification	100 μin minimum	100 μin minimum		
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel		
Coupling Nut Plating Specification	100 µin minimum	100 μin minimum		
Hex Size	5/16 inch			
Torque	3 in-lbs 0.34 Nm			

Environmental Specifications

Temperature

Operating Range

-20 to +70 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



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How to Order



Example: LCCA30378-12 = 12 inches long cable

LCCA30378-100cm = 100 cm long cable

Low Loss SMA Male to TNC Male Cable Assembly using 100 Series Coax, 1.5 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within 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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.ontained within 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 impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

L-com CAD Drawing

