



LCCA30344-FT1.5

Configuration

Connector 1: TNC Male
Connector 2: N Female
Cable Type: LMR-600-DB

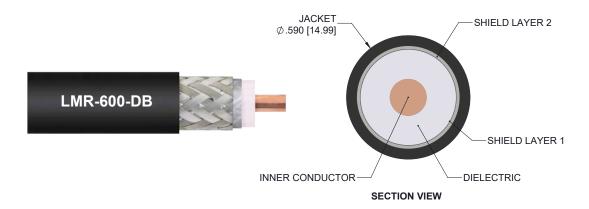
Features

- · Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity

Applications

- General Purpose
- · Laboratory Use
- · Antenna Installations

- PE Jacket
- · Low Insertion Loss
- · Bend Radius of 6 Inches
- Land Mobile Radio & Other Communication Systems
- · Cellular & Wi-Fi Systems



Description

L-com's LCCA30344-FT1.5 is a low loss TNC male to N female cable assembly using LMR-600-DB coax, 1.5 FT with Times Microwave components with heatshrink and ships same-day. The LMR-600-DB coax of this TNC cable uses the PE (F) dielectric with a VoP of 87%, 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 TNC to N cable assembly has a male to female gender configuration with flexible LMR-600-DB series coax and operates to 5.8 GHz. The double shield of this TNC cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. *LMR™ is a trademark of Times Microwave Systems.

Custom versions of this TNC male to TNC female 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 LCCA30344-FT1.5 L-com Low Loss TNC Male to N Female Cable Assembly using LMR-600-DB Coax, 1.5 FT with Times Microwave Components with HeatShrink 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		5.8	GHz
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conduct	or	0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conduc	tor	1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

Frequency 0.25 0.5 1 2.5 5.8 GHz Insertion Loss (Typ.) 0.21 0.22 0.23 0.26 0.3 dB	Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.) 0.21 0.22 0.23 0.26 0.3 dB	Frequency	0.25	0.5	1	2.5	5.8	GHz
	Insertion Loss (Typ.)	0.21	0.22	0.23	0.26	0.3	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this 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
 0.87 in [22.1 mm]

 Weight
 0.43 lbs [195.04 g]

Cable

Cable TypeLMR-600-DBImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper Clad Aluminum

Dielectric Type PE (F)
Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid





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Jacket Material PE, Black

Jacket Diameter 0.59 in [14.99 mm]

 One Time Minimum Bend Radius
 1.5 in [38.1 mm]

 Repeated Minimum Bend Radius
 6 in [152.4 mm]

 Bending Moment
 2.75 lbs-ft [3.73 N-m]

 Flat Plate Crush
 60 lbs/in [1.07 Kg/mm]

 Tensile Strength
 350 lbs [158.76 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	TNC Male	N Female	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500		
Contact Material and Plating	Beryllium Copper, Gold	Spring Bronze, Gold	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Tri-Metal		
Body Material and Plating	Brass, Tri-Metal	Copper, Tri-Metal	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Hex Size		16 mm	

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





LCCA30344-FT1.5

How to Order



Example: LCCA30344-12 = 12 inches long cable LCCA30344-100cm = 100 cm long cable

Low Loss TNC Male to N Female Cable Assembly using LMR-600-DB Coax, 1.5 FT with Times Microwave Components with HeatShrink 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

