

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



LCCA30216-FT1.5

Configuration

Connector 1: TNC MaleConnector 2: TNC MaleCable Type: LMR-600

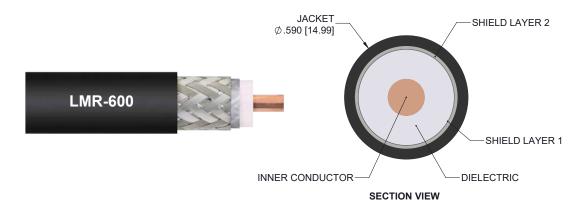
Features

- 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 LCCA30216-FT1.5 is a low loss TNC male to TNC male cable assembly using LMR-600 coax, 1.5 FT with Times Microwave components and ships same-day. The LMR-600 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 TNC cable assembly has a male to male gender configuration with flexible LMR-600 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 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 LCCA30216-FT1.5 L-com Low Loss TNC Male to TNC Male Cable Assembly using LMR-600 Coax, 1.5 FT with Times Microwave Components 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
VSWR			1.4:1	
Return Loss			15.563	dB
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 Con	ductor	0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Cor	nductor	1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	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.)	0.21	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 0.75 in [19.05 mm] Weight 0.378 lbs [171.46 g]

Cable

LMR-600 Cable Type Impedance 50 Ohms Inner Conductor Type

Inner Conductor Material and Plating Copper Clad Aluminum Dielectric Type PE(F)

Number of Shields 2

Shield Layer 1 Aluminum Tape



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Shield Layer 2 Tinned Copper Braid
Jacket Material PE, Black
Jacket Diameter 0.59 in [14.99 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
Bending Moment
Flat Plate Crush
Tensile Strength

1.5 in [38.1 mm]
6 in [152.4 mm]
2.75 lbs-ft [3.73 N-m]
60 lbs/in [1.07 Kg/mm]
350 lbs [158.76 Kg]

Connectors

Connector 1	Connector 2		
TNC Male	TNC Male		
50 Ohms	50 Ohms		
500	500		
Beryllium Copper, Gold	Beryllium Copper, Gold		
PTFE	PTFE		
Brass, Tri-Metal	Brass, Tri-Metal		
Brass, Tri-Metal	Brass, Tri-Metal		
	TNC Male 50 Ohms 500 Beryllium Copper, Gold PTFE Brass, Tri-Metal		

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:

• Values at 25°C, sea level.

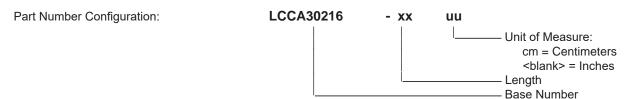


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How to Order



Example: LCCA30216-12 = 12 inches long cable

LCCA30216-100cm = 100 cm long cable

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

