



## LCCA30254-FT1.5

# Configuration

- · Connector 1: TNC Male
- Connector 2: TNC Female Reverse Polarity
- · Cable Type: LMR-200-FR

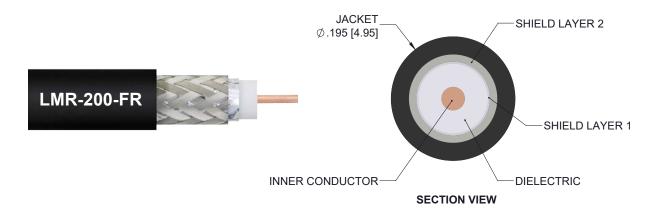
#### **Features**

- Using Times Microwave Components
- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity

### **Applications**

- General Purpose
- · Laboratory Use
- · Antenna Installations

- FRPE Jacket
- · Low Insertion Loss
- · Bend Radius of 2 Inches
- Land Mobile Radio & Other Communication Systems
- · Cellular & Wi-Fi Systems



### Description

L-com's LCCA30254-FT1.5 is a low loss TNC male to reverse polarity TNC female cable assembly using LMR-200-FR coax, 1.5 FT with Times Microwave components and ships same-day. The LMR-200-FR coax of this TNC cable uses the PE dielectric with a VoP of 83%, 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 female gender configuration with flexible LMR-200-FR series coax and operates to 3 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 LCCA30254-FT1.5 L-com Low Loss TNC Male to Reverse Polarity TNC Female Cable Assembly using LMR-200-FR Coax, 1.5 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





### LCCA30254-FT1.5

# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Cond	uctor	5.36 [17.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Cond	luctor	4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Jacket Spark			3,000	Vrms

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.24	0.27	0.3	0.35	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 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 0.69 in [17.53 mm]

#### Cable

Cable TypeLMR-200-FRImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePENumber of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid





## LCCA30254-FT1.5

Jacket MaterialFRPE, BlackJacket Diameter0.195 in [4.95 mm]

 One Time Minimum Bend Radius
 0.5 in [12.7 mm]

 Repeated Minimum Bend Radius
 2 in [50.8 mm]

 Bending Moment
 2 lbs-ft [2.71 N-m]

 Flat Plate Crush
 15 lbs/in [0.27 Kg/mm]

 Tensile Strength
 40 lbs [18.14 Kg]

### **Connectors**

Description	Connector 1	Connector 2	
Туре	TNC Male	TNC Female Reverse Polarity	
Specification	MIL-STD-348		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Tri-Metal		
Body Material and Plating	aterial and Plating Brass, Tri-Metal		
Coupling Nut Material and Plating	Brass, Tri-Metal		
Hex Size	5/8 Inch		

## **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:





# LCCA30254-FT1.5

### **How to Order**



Example: LCCA30254-12 = 12 inches long cable

LCCA30254-100cm = 100 cm long cable

Low Loss TNC Male to Reverse Polarity TNC Female Cable Assembly using LMR-200-FR 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**

