

LCCA30231-FT6

Configuration

· Connector 1: SMA Male

Connector 2: N Male Right Angle

• Cable Type: LMR-195-FR

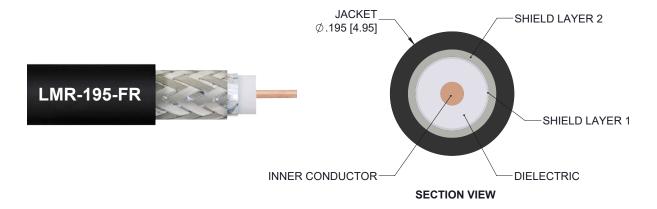
Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 76% 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 LCCA30231-FT6 is a low loss SMA male to N male right angle cable assembly using LMR-195-FR coax, 6 FT with Times Microwave components and ships same-day. The LMR-195-FR coax of this SMA cable uses the PE dielectric with a VoP of 76%, 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 N cable assembly has a male to male gender configuration with flexible LMR-195-FR series coax and operates to 5.8 GHz. The double shield of this SMA cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. This right angle N cable interface on the LMR-195-FR coax allows for easier connections in tight spaces. *LMR™ is a trademark of Times Microwave Systems.

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 LCCA30231-FT6 L-com Low Loss SMA Male to N Male Right Angle Cable Assembly using LMR-195-FR Coax, 6 FT with Times Microwave Components data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



LCCA30231-FT6

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conducto	or	7.6 [24.93]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conducto	or	4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.25	0.5	1	2.5	5.8	GHz	
Insertion Loss (Typ.)	0.64	0.79	1	1.43	2.09	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 for the straight connector and 0.2 dB for the right angle connector

Mechanical Specifications

Cable Assembly

 Length
 72 in [182.88 cm]

 Diameter
 0.8 in [20.32 mm]

Cable

Cable TypeLMR-195-FRImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopperDielectric TypePENumber of Shields2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid



LCCA30231-FT6

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
 0.2 lbs-ft [0.27 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	SMA Male	N Male Right Angle		
Impedance	50 Ohms	50 Ohms		
Mating Cycles		500		
Contact Material and Plating	Brass, Gold	Brass, Gold		
Contact Plating Specification	ASTM B488	50μ in. minimum		
Dielectric Type	Teflon	Teflon		
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal		
Body Plating Specification		80µ in. minimum		
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal		
Coupling Nut Plating Specification		80μ in. minimum		
Hex Size	5/16 Inch	30		

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:



LCCA30231-FT6

How to Order



Example: LCCA30231-12 = 12 inches long cable LCCA30231-100cm = 100 cm long cable

Low Loss SMA Male to N Male Right Angle Cable Assembly using LMR-195-FR Coax, 6 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

