

Low Loss BNC Male to SMA Male Cable Assembly using LMR-200-FR Coax, 10 FT with Times Microwave Components



LCCA30247-FT10

Configuration

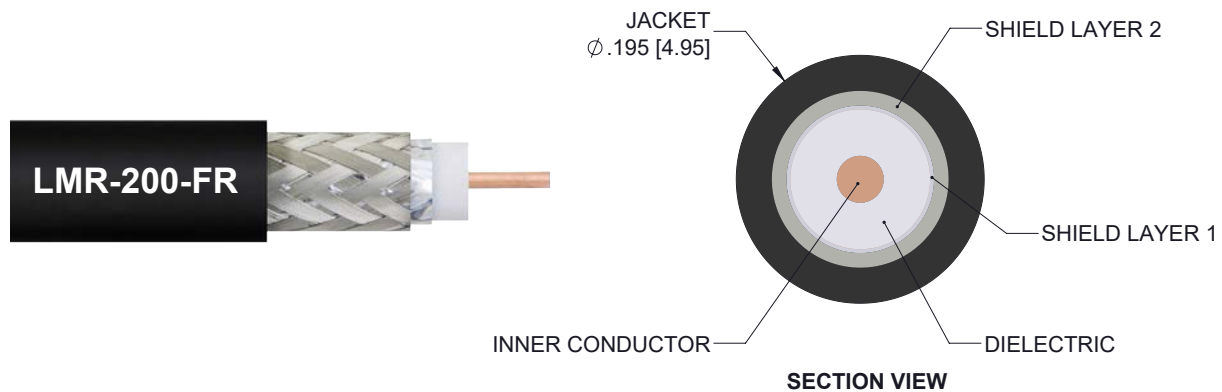
- Connector 1: BNC Male
- Connector 2: SMA Male
- Cable Type: LMR-200-FR

Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- FRPE Jacket
- Low Insertion Loss
- Bend Radius of 2 Inches

Applications

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



Description

L-com's LCCA30247-FT10 is a low loss BNC male to SMA male cable assembly using LMR-200-FR coax, 10 FT with Times Microwave components and ships same-day. The LMR-200-FR coax of this BNC 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 BNC to SMA cable assembly has a male to male gender configuration with flexible LMR-200-FR series coax and operates to 5.8 GHz. The double shield of this BNC 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 BNC male to BNC 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 LCCA30247-FT10 L-com Low Loss BNC Male to SMA Male Cable Assembly using LMR-200-FR Coax, 10 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
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 Conductor		5.36 [17.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		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.)	0.7	0.93	1.24	1.88	2.83	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 120 in [304.8 cm]
Diameter 0.57 in [14.48 mm]

Cable

Cable Type LMR-200-FR
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper
Dielectric Type PE
Number of Shields 2
Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket Material	FRPE, Black
Jacket Diameter	0.195 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
Type	BNC Male	SMA Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification		ASTM B488
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Body Plating Specification		SAE-AMS-2700
Coupling Nut Material and Plating	Brass, Tri-Metal	Passivated Stainless Steel
Coupling Nut Plating Specification		SAE-AMS-2700
Hex Size		5/16 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:

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LCCA30247-FT10

How to Order

Part Number Configuration:

LCCA30247 - xx uu



Example: LCCA30247-12 = 12 inches long cable
LCCA30247-100cm = 100 cm long cable

Low Loss BNC Male to SMA Male Cable Assembly using LMR-200-FR Coax, 10 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.

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L-com CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/03/2020	SELLIS

LENGTH MEASURED FROM CONTACT TO CONTACT

SMA MALE

LMR-200-FR

2X HEAT SHRINK

LABEL

WWW.L-COM.COM
L-COM P/N

(SEE NOTE 1)

BNC MALE

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [.508] FRACTIONS ± 1/32</p> <p>.XX = ±.02 [.51] ANGLES ± 1°</p> <p>.XXX = ±.005 [.13]</p> <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = ±1 [25] / -0</p> <p>12 [305] < L ≤ 60 [1524] = ±2 [51] / -0</p> <p>60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0</p> <p>120 [3048] < L ≤ 300 [7620] = ±6 [152] / -0</p> <p>300 [7620] < L = ±5% L / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	<p>L-comTM an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p> <p>SIZE A CAGE CODE [DRAWN BY] PART NUMBER 43321 MVEERAPPAN LCCA30247</p> <p>REV A</p>
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NOTES:

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END, 6.0" FROM THE FRONT OF THE CONNECTOR.

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