

Low Loss SMA Male to TNC Male Cable Assembly using LMR-200 Coax, 3 FT with Times Microwave Components



LCCA30236-FT3

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: LMR-200

Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- PE 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 LCCA30236-FT3 is a low loss SMA male to TNC male cable assembly using LMR-200 coax, 3 FT with Times Microwave components and ships same-day. The LMR-200 coax of this SMA cable uses the PE (F) 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 SMA to TNC cable assembly has a male to male gender configuration with flexible LMR-200 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. *LMRTM 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 LCCA30236-FT3 L-com Low Loss SMA Male to TNC Male Cable Assembly using LMR-200 Coax, 3 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.)	0.35	0.42	0.51	0.71	0.99	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 36 in [914.4 mm]
Diameter 0.69 in [17.53 mm]

Cable

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

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LCCA30236-FT3

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

Low Loss SMA Male to TNC Male Cable Assembly using LMR-200 Coax, 3 FT with Times Microwave Components



LCCA30236-FT3

How to Order

Part Number Configuration:

LCCA30236 - xx uu



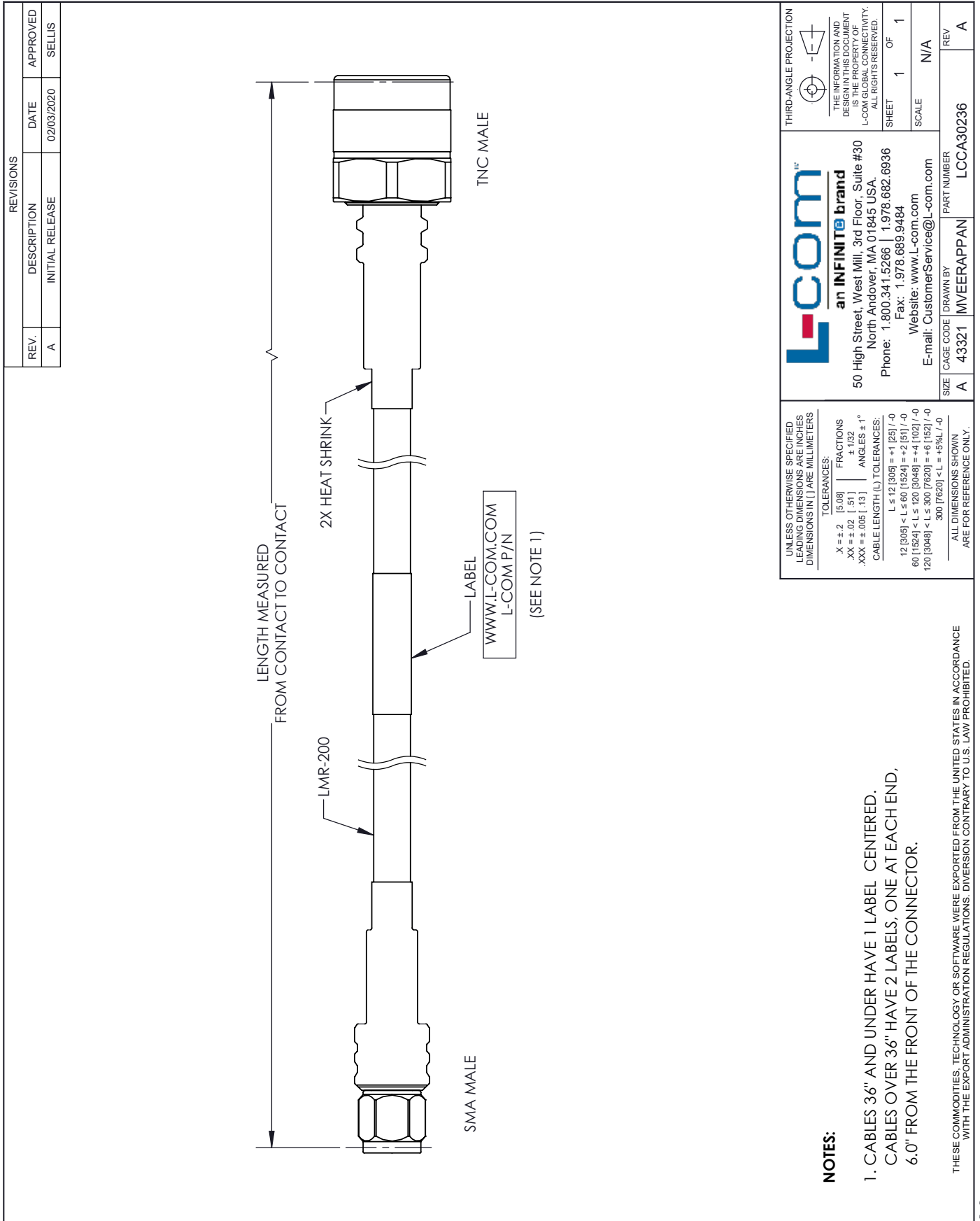
Example: LCCA30236-12 = 12 inches long cable
LCCA30236-100cm = 100 cm long cable

Low Loss SMA Male to TNC Male Cable Assembly using LMR-200 Coax, 3 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 implement 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 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 implement 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.

Low Loss SMA Male to TNC Male Cable Assembly using LMR-200 Coax,
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L-com CAD Drawing



<p>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>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">.X ± .2 [.008]</td> <td style="border: none;">FRACTIONS ± 1/32</td> </tr> <tr> <td style="border: none;">.XX ± .02 [.51]</td> <td style="border: none;">ANGLES ± 1°</td> </tr> <tr> <td style="border: none;">.XXX ± .005 [.13]</td> <td style="border: none;">CABLE LENGTH (L) TOLERANCES:</td> </tr> <tr> <td style="border: none;">12 [305] < L ≤ 60 [1524] = +1 [25] / -0</td> <td style="border: none;">60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td style="border: none;">120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> <td style="border: none;">300 [7620] < L = +5%L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X ± .2 [.008]	FRACTIONS ± 1/32	.XX ± .02 [.51]	ANGLES ± 1°	.XXX ± .005 [.13]	CABLE LENGTH (L) TOLERANCES:	12 [305] < L ≤ 60 [1524] = +1 [25] / -0	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	300 [7620] < L = +5%L / -0
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<p>SIZE A</p> <p>CAGE CODE [DRAWN BY] 43321</p>	<p>PART NUMBER LCCA30236</p>										

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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