

GLOBAL CONNECTIVITY SOLUTIONS

Low Loss SMA Male to TNC Male Cable Assembly using LMR-100 Coax, 1.5 FT with Times Microwave Components

LCCA30224-FT1.5

Configuration

- Connector 1: SMA Male
- Connector 2: TNC Male
- Cable Type: LMR-100A-PVC

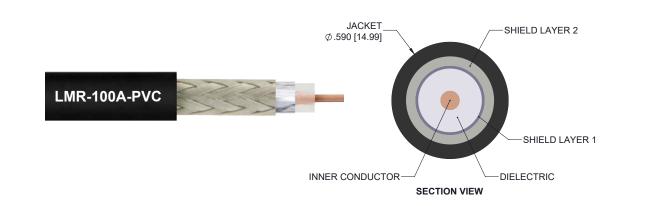
Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity

Applications

- · General Purpose
- · Laboratory Use
- Antenna Installations

- PVC Jacket
- Low Insertion Loss
- Bend Radius of 1 Inch
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



Description

L-com's LCCA30224-FT1.5 is a low loss SMA male to TNC male cable assembly using LMR-100 coax, 1.5 FT with Times Microwave components and ships same-day. The LMR-100A-PVC coax of this SMA cable uses the PE dielectric with a VoP of 66%, 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-100A-PVC 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. *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 LCCA30224-FT1.5 L-com Low Loss SMA Male to TNC Male Cable Assembly using LMR-100 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

			Units
DC		5.8	GHz
	66		%
90			dB
	1.54 [5.05]		ns/ft [ns/m]
	30.8 [101.05]		pF/ft [pF/m]
	0.077 [0.25]		uH/ft [uH/m]
or	81 [265.75]		Ohms/1000ft [Ohms/Km]
tor	9.5 [31.17]		Ohms/1000ft [Ohms/Km]
		2,000	Vrms
	or	90 1.54 [5.05] 30.8 [101.05] 0.077 [0.25] or 81 [265.75]	90 1.54 [5.05] 30.8 [101.05] 0.077 [0.25] or 81 [265.75] tor 9.5 [31.17]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.25	0.5	1	2.5	5.8	GHz	
Insertion Loss (Typ.)	0.37	0.45	0.56	0.8	1.16	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 Diameter	18 in [457.2 mm] 0.6 in [15.24 mm]
Weight	0.121 lbs [54.88 g]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2	LMR-100A-PVC 50 Ohms Solid Copper Clad Steel PE 2 Aluminum Tape Tinned Copper Braid





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Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	TNC Male	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Stainless Steel	Brass, Silver	
Coupling Nut Material and Plating	Stainless Steel	Brass, Silver	

Environmental Specifications

Temperature Operating Range Storage Range

-40 to +85 deg C -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





Low Loss SMA Male to TNC Male Cable Assembly using LMR-100 Coax, 1.5 FT with Times Microwave Components

LCCA30224-FT1.5

How to Order

 Part Number Configuration:
 LCCA30224
 - xx
 uu

 Image: LCCA30224
 - xx
 uu

 Image: LCCA30224-12 = 12 inches long cable
 Image: LCCA30224-12 = 12 inches long cable
 Image: LCCA30224-12 = 12 inches long cable

Example: LCCA30224-12 = 12 inches long cable LCCA30224-100cm = 100 cm long cable

Low Loss SMA Male to TNC Male Cable Assembly using LMR-100 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.

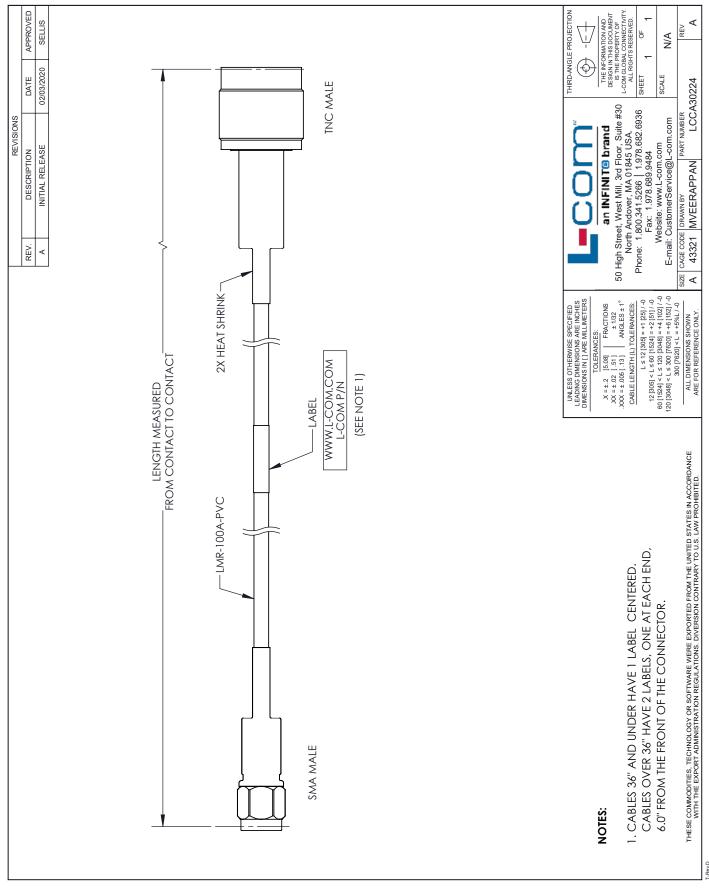
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L-com CAD Drawing



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