

GLOBAL CONNECTIVITY SOLUTIONS

Low Loss N Male to N Female Bulkhead Cable Assembly using LMR-600 Coax, 1.5 FT with Times Microwave Components

LCCA30215-FT1.5

Configuration

- Connector 1: N Male
- Connector 2: N Female Bulkhead
- Cable Type: LMR-600

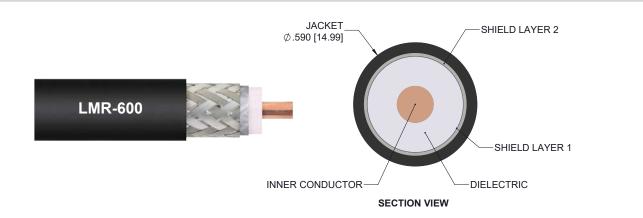
Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity

Applications

- · General Purpose
- · Laboratory Use
- Antenna Installations

- PE Jacket
- Low Insertion Loss
- · Bend Radius of 6 Inches
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



Description

L-com's LCCA30215-FT1.5 is a low loss N male to N female bulkhead cable assembly using LMR-600 coax, 1.5 FT with Times Microwave components and ships same-day. The LMR-600 coax of this N cable uses the PE (F) dielectric with a VoP of 87%, 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 N to N cable assembly has a male to female gender configuration with flexible LMR-600 series coax and operates to 5.8 GHz. The double shield of this N cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. L-com's RF cable assembly with N bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications. *LMR[™] is a trademark of Times Microwave Systems.

Custom versions of this N male to N 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 LCCA30215-FT1.5 L-com Low Loss N Male to N Female Bulkhead Cable Assembly using LMR-600 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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Condu	uctor	0.53 [1.74]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Cond	uctor	1.2 [3.94]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	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.)	0.22	0.23	0.24	0.27	0.31	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 0.87 in [22.1
Cable	
Cable Type	LMR-600
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Cla
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum T
Shield Layer 2	Tinned Cop

2 mm] .1 mm]

ad 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 PE, Black 0.59 in [14.99 mm]

1.5 in [38.1 mm] 6 in [152.4 mm] 2.75 lbs-ft [3.73 N-m] 60 lbs/in [1.07 Kg/mm] 350 lbs [158.76 Kg]

Connectors

Description	Connector 1	Connector 2
Туре	N Male	N Female Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50µ in. minimum	
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Silver
Body Plating Specification	100µ in. minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	100µ in. minimum	
Hex Size	20.57 mm	
Torque	44 in-lbs 4.97 Nm	

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:





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LCCA30215-100cm = 100 cm long cable

LCCA30215-FT1.5

How to Order

Example:

Part Number Configuration: LCCA30215 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number LCCA30215-12 = 12 inches long cable

Low Loss N Male to N Female Bulkhead Cable Assembly using LMR-600 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.



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L-com CAD Drawing

