

Low Loss TNC Male to N Male Cable Assembly using LMR-600 Coax, 1 FT with Times Microwave Components



LCCA30330-FT1

Configuration

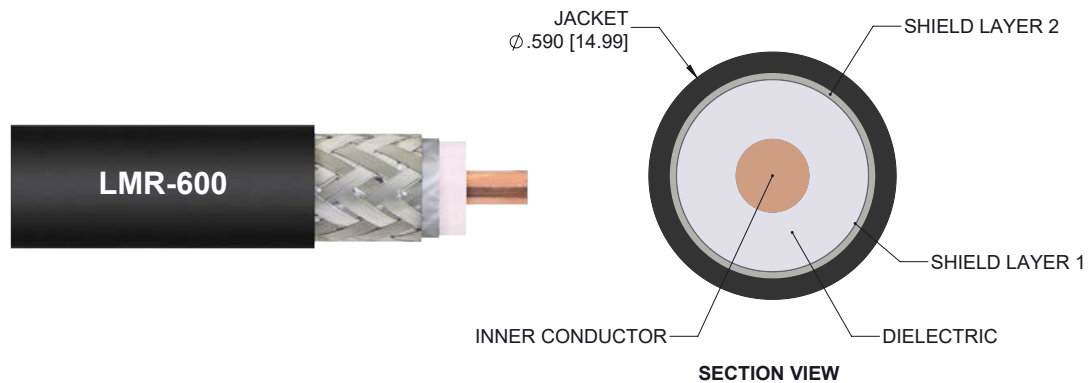
- Connector 1: TNC Male
- Connector 2: N Male
- Cable Type: LMR-600

Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- PE Jacket
- Low Insertion Loss
- Bend Radius of 6 Inches

Applications

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



Description

L-com's LCCA30330-FT1 is a low loss TNC male to N male cable assembly using LMR-600 coax, 1 FT with Times Microwave components and ships same-day. The LMR-600 coax of this TNC 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 TNC to N cable assembly has a male to male gender configuration with flexible LMR-600 series coax and operates to 5.8 GHz. The double shield of this TNC 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 TNC male to TNC 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 LCCA30330-FT1 L-com Low Loss TNC Male to N Male Cable Assembly using LMR-600 Coax, 1 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 |
| VSWR | | | 1.4:1 | |
| 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 Conductor | | 0.53 [1.74] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor | | 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.) | 0.21 | 0.21 | 0.22 | 0.24 | 0.27 | 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 | 12 in [304.8 mm] |
| Diameter | 0.801 in [20.35 mm] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | LMR-600 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type | PE (F) |
| Number of Shields | 2 |
| Shield Layer 1 | Aluminum Tape |
| Shield Layer 2 | Tinned Copper Braid |

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| | |
|------------------------------|------------------------|
| Jacket Material | PE, Black |
| Jacket Diameter | 0.59 in [14.99 mm] |
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |
| Repeated Minimum Bend Radius | 6 in [152.4 mm] |
| Bending Moment | 2.75 lbs-ft [3.73 N-m] |
| Flat Plate Crush | 60 lbs/in [1.07 Kg/mm] |
| Tensile Strength | 350 lbs [158.76 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------------|-------------------|
| Type | TNC Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold |
| Contact Plating Specification | | 50µ in. minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | | 100µ in. minimum |
| Coupling Nut Material and Plating | Brass, Tri-Metal | 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 | -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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LCCA30330-FT1

How to Order

Part Number Configuration:

LCCA30330 - xx uu



Example: LCCA30330-12 = 12 inches long cable
LCCA30330-100cm = 100 cm long cable

Low Loss TNC Male to N Male Cable Assembly using LMR-600 Coax, 1 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

