

GLOBAL CONNECTIVITY SOLUTIONS

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Low Loss BNC Male to TNC Male Cable Assembly using LMR-400 Coax, 4 FT with Times Microwave Components

LCCA30303-FT4

Configuration

- Connector 1: BNC Male
- Connector 2: TNC Male
- Cable Type: LMR-400

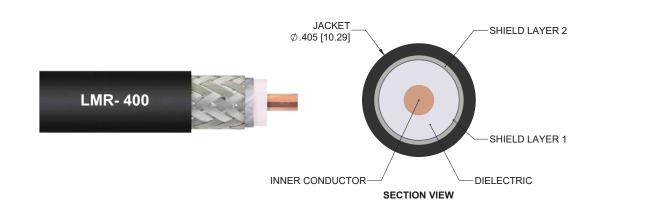
Features

- Using Times Microwave Components
- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity

Applications

- · General Purpose
- · Laboratory Use
- Antenna Installations

- PE Jacket
- Low Insertion Loss
- · Bend Radius of 4 Inches
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



Description

L-com's LCCA30303-FT4 is a low loss BNC male to TNC male cable assembly using LMR-400 coax, 4 FT with Times Microwave components and ships same-day. The LMR-400 coax of this BNC cable uses the PE (F) dielectric with a VoP of 85%, 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 TNC cable assembly has a male to male gender configuration with flexible LMR-400 series coax and operates to 6 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 LCCA30303-FT4 L-com Low Loss BNC Male to TNC Male Cable Assembly using LMR-400 Coax, 4 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 | | 6 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 85 | | % |
| RF Shielding | 90 | | | dB |
| Group Delay | | 1.2 [3.94] | | ns/ft [ns/m] |
| Capacitance | | 23.9 [78.41] | | pF/ft [pF/m] |
| Inductance | | 0.06 [0.2] | | uH/ft [uH/m] |
| DC Resistance Inner Con | ductor | 1.39 [4.56] | | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Cor | nductor | 1.65 [5.41] | | 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 | 6 | GHz | |
| Insertion Loss (Typ.) | 0.28 | 0.31 | 0.36 | 0.71 | 0.64 | 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

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 48 in [121.92 cm] 0.622 in [15.8 mm]

LMR-400 50 Ohms Solid Copper Clad Aluminum PE (F) 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 PE, Black 0.405 in [10.29 mm]

1 in [25.4 mm] 4 in [101.6 mm] 0.5 lbs-ft [0.68 N-m] 40 lbs/in [0.71 Kg/mm] 160 lbs [72.57 Kg]

Connectors

| Description | Connector 1 | Connector 2 | |
|------------------------------------|------------------|------------------|--|
| Туре | BNC Male | TNC Male | |
| Impedance | 50 Ohms | 50 Ohms | |
| Mating Cycles | 500 | 500 | |
| Contact Material and Plating | Brass, Gold | Brass, Gold | |
| Contact Plating Specification | 50 microns | | |
| Dielectric Type | PTFE | | |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal | |
| Body Plating Specification | 80 microns | | |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal | |
| Coupling Nut Plating Specification | 80 microns | | |

Environmental Specifications

TemperatureOperating Range-40 to +85 deg CStorage Range-70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



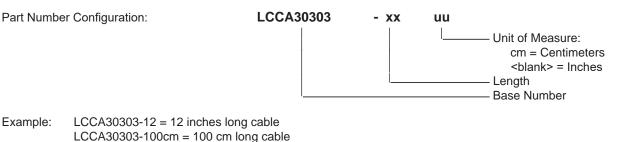


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How to Order

Example:



Low Loss BNC Male to TNC Male Cable Assembly using LMR-400 Coax, 4 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

