

N Male to TNC Female Cable Assembly using LC085TB Coax, 3 FT



#### LCCA30578-FT3

## Configuration

Connector 1: N MaleConnector 2: TNC FemaleCable Type: LC085TB

#### **Features**

- · Max Frequency 6 GHz
- Shielding Effectivity > 100dB
- PTFE Dielectric with 69.5% VoP

### **Applications**

- General Purpose
- · Laboratory Use

- Hand Formable
- Tin Filled Copper Composite Braid Outer Conductor
- · System Interconnect



## **Description**

L-com's LCCA30578-FT3 is a N male to TNC female cable assembly using LC085TB coax, 3 FT and ships same-day. The LC085TB coax of this N cable uses the PTFE dielectric with a VoP of 69.5%. These formable RF cable assemblies are a great alternative to expensive semi-rigid assemblies because they can be hand formed to fit specific designs. Our L-com N to TNC cable assembly has a male to female gender configuration with formable LC085TB series coax and operates to 6 GHz. The tin plated copper outer conductor can be easily formed by hand and has an overall diameter of 0.085 inches.

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 LCCA30578-FT3 L-com N Male to TNC Female Cable Assembly using LC085TB Coax, 3 FT 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                       |         |               | 1.45:1  |                       |
| Velocity of Propagation    |         | 69.5          |         | %                     |
| Capacitance                |         | 29 [95.14]    |         | pF/ft [pF/m]          |
| DC Resistance Inner Conduc | ctor    | 65.7 [215.55] |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Condu  | ctor    | 10.2 [33.46]  |         | Ohms/1000ft [Ohms/Km] |

## **Specifications by Frequency**

| Description           | F1   | F2  | F3   | F4 | F5 | Units |
|-----------------------|------|-----|------|----|----|-------|
| Frequency             | 0.5  | 1   | 2.5  | 6  |    | GHz   |
| Insertion Loss (Typ.) | 0.65 | 0.9 | 1.25 | 2  |    | 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.

0.78 in [19.81 mm]

#### **Mechanical Specifications**

Repeated Minimum Bend Radius

# **Cable Assembly**

 Length
 36 in [914.4 mm]

 Diameter
 0.79 in [20.07 mm]

#### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Outer Conductor Material and Plating
Outer Conductor Diameter

LC085TB
50 Ohms
Copper Clad Steel, Silver
PTFE
1
Copper, Tin
Copper, Tin
0.085 in [2.16 mm]



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#### LCCA30578-FT3

#### **Connectors**

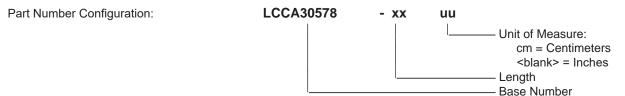
| Description                       | Connector 1             | Connector 2                        |
|-----------------------------------|-------------------------|------------------------------------|
| Туре                              | N Male                  | TNC Female                         |
| Impedance                         | 50 Ohms                 | 50 Ohms                            |
| Contact Material and Plating      | Brass, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Dielectric Type                   | PTFE                    | PTFE                               |
| Body Material and Plating         | Brass, Nickel           | Brass, Nickel                      |
| Coupling Nut Material and Plating | Brass, Nickel           |                                    |

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

#### **How to Order**



Example: LCCA30578-12 = 12 inches long cable

LCCA30578-100cm = 100 cm long cable

N Male to TNC Female Cable Assembly using LC085TB Coax, 3 FT 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**

