

# **GLOBAL CONNECTIVITY SOLUTIONS**

## TNC Male to TNC Male Cable Assembly using RG178 Coax, 10 FT

# LCCA30058-FT10

#### Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: RG178

#### **Features**

- Max Frequency 2 GHz
- 70% VoP

#### **Applications**

· General Purpose

- FEP Jacket
- Heat Shrink Strain Relief
- · Laboratory Use



#### Description

L-com's LCCA30058-FT10 is a TNC male to TNC male cable assembly using RG178 coax, 10 FT and ships same-day. The RG178 coax of this TNC cable uses the PTFE dielectric with a VoP of 70%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TNC to TNC cable assembly has a male to male gender configuration with flexible RG178 series coax and operates to 2 GHz. The shielding of this TNC cable is comprised of silver plated copper braid.

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 LCCA30058-FT10 L-com TNC Male to TNC Male Cable Assembly using RG178 Coax, 10 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



## TNC Male to TNC Male Cable Assembly using RG178 Coax, 10 FT



## LCCA30058-FT10

#### **Electrical Specifications**

| Description             | Minimum | Typical      | Maximum | Units        |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range         | DC      |              | 2       | GHz          |
| VSWR                    |         |              | 1.6:1   |              |
| Velocity of Propagation |         | 70           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

## **Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.05 | 0.1  | 0.25 | 0.5  | 2    | GHz   |
| Insertion Loss (Max.) | 1.35 | 1.58 | 2.28 | 3.26 | 6.35 | 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 is estimated as 0.1 dB per connector.

#### **Mechanical Specifications**

| Cable Assembly |                    |
|----------------|--------------------|
| Length         | 120 in [304.8 cm]  |
| Diameter       | 0.072 in [1.83 mm] |

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating **Dielectric Type** Number of Shields Shield Layer 1 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

RG178 50 Ohms Stranded Copper, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.072 in [1.83 mm]

0.4 in [10.16 mm]



## TNC Male to TNC Male Cable Assembly using RG178 Coax, 10 FT



## Connectors

| Description               | Connector 1   | Connector 2   |
|---------------------------|---------------|---------------|
| Туре                      | TNC Male      | TNC Male      |
| Impedance                 | 50 Ohms       | 50 Ohms       |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |

#### **Environmental Specifications**

Temperature Operating Range

-55 to +200 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.



TNC Male to TNC Male Cable Assembly using RG178 Coax, 10 FT

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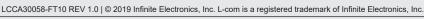
#### How to Order

Example:

Part Number Configuration: LCCA30058 - XX uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number LCCA30058-12 = 12 inches long cable LCCA30058-100cm = 100 cm long cable

TNC Male to TNC Male Cable Assembly using RG178 Coax, 10 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.



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## L-com CAD Drawing