

GLOBAL CONNECTIVITY SOLUTIONS

TNC Male to TNC Male Cable Assembly using RG178 Coax, 5 FT

LCCA30058-FT5

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-FT5 is a TNC male to TNC male cable assembly using RG178 coax, 5 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-FT5 L-com TNC Male to TNC Male Cable Assembly using RG178 Coax, 5 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, 5 FT



LCCA30058-FT5

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.) | 0.78 | 0.89 | 1.24 | 1.73 | 3.28 | 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 | 60 in [152.4 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, 5 FT



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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, 5 FT

LCCA30058-FT5

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, 5 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.



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. APPROVED THIRD-ANGLE PROJECTION SELLIS ∢ Ļ. R Ь A/A ~ $(\mathbf{\Phi})$ 01/31/2020 DATE SHEET SCALE LCCA30058 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 | 1.978.682.6936 Fax: 1.978.689.9484 TNC MALE REVISIONS PART NUMBEF E-mail: CustomerService@L-com.com an INFINIT® brand Website: www.L-com.com INITIAL RELEASE DESCRIPTION CAGE CODE DRAWN BY 43321 MVEERAPPAN REV. ∢ A L = 12 [305] = +1 [25] / -0 12 [305] + L = 200 [304] = -2 [51] / -0 60 [1224] + L = 120 [3043] = -44 [102] / -0 120 [3048] < L = 300 [7620] = 46 [152] / -0 300 [7620] = 16 [152] / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. ± 1/32 ANGLES ± 1° UNLESS OT HERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS [5.08] | FRACTIONS CABLE LENGTH (L) TOLERANCES WWW.L-COM.COM L-COM P/N (SEE NOTE 1) LENGTH MEASURED FROM CONTACT TO CONTACT $X = \pm .2$ [5.08] $XX = \pm .02$ [.51] $XXX = \pm .005$ [.13] -LABEL RG178 COAX CABLE THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. 1 CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END, 1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED 6.0" FROM THE FRONT OF THE CONNECTOR. TNC MALE NOTES: Zev.D

L-com CAD Drawing