

1553 TRS Subminiature Plug to TRS Subminiature Plug
Cable Assembly using 30-02003-LC Coax, 1 FT



LC3MP2018-12

Configuration

- Connector 1: TRS Subminiature Plug
- Connector 2: TRS Subminiature Plug
- Cable Type: 30-02003-LC

Features

- MIL-STD-1553
- -20°C to +75°C
- 78 ohms

Applications

- MIL-STD-1553
- Data

Description

L-com's LC3MP2018-12 is a 1553 TRS subminiature plug to TRS subminiature plug cable assembly using 30-02003-LC coax, 1 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRS Subminiature to TRS Subminiature cable assembly has a plug to plug gender configuration with 78 Ohm flexible 30-02003-LC series coax and operates to 500 MHz.

Custom versions of this TRS Subminiature plug to TRS Subminiature plug 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 LC3MP2018-12 L-com 1553 TRS Subminiature Plug to TRS Subminiature Plug Cable Assembly using 30-02003-LC Coax, 1 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|------------------------|---------|-------------|---------|--------------|
| Frequency Range | DC | | 500 | MHz |
| Capacitance | | 20.3 [66.6] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 300 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency | 10 | 50 | 100 | 200 | 500 | MHz |
| Insertion Loss (Typ.) | 0.253 | 0.319 | 0.368 | 0.437 | 0.575 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

1553 TRS Subminiature Plug to TRS Subminiature Plug
Cable Assembly using 30-02003-LC Coax, 1 FT



LC3MP2018-12

Mechanical Specifications

Cable Assembly

| | |
|---------|---------------------|
| Length* | 12 in [304.8 mm] |
| Weight | 0.074 lbs [33.57 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | 30-02003-LC |
| Impedance | 78 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper, Silver |
| Dielectric Type | PE |
| Shield Layer 1 | Silver Plated Copper |
| Jacket Material | PVC, Blue |
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|------------------------------|------------------------------|
| Type | TRS Subminiature Plug | TRS Subminiature Plug |
| Impedance | 78 Ohms | 78 Ohms |
| Contact Material and Plating | Bronze, Gold 30 micro inches | Bronze, Gold 30 micro inches |
| Contact Plating Specification | ASTM-B-488 | ASTM-B-488 |
| Dielectric Type | Teflon | Teflon |
| Outer Conductor Material and Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Outer Conductor Plating Specification | 30 micro inches | 30 micro inches |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | ASTM-B-733 | ASTM-B-733 |

Environmental Specifications

Temperature

Operating Range -20 to +75 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

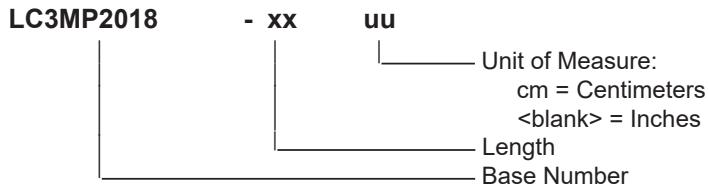
1553 TRS Subminiature Plug to TRS Subminiature Plug
Cable Assembly using 30-02003-LC Coax, 1 FT



LC3MP2018-12

How to Order

Part Number Configuration:



Example: LC3MP2018-12 = 12 inches long cable
LC3MP2018-100cm = 100 cm long cable

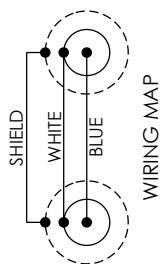
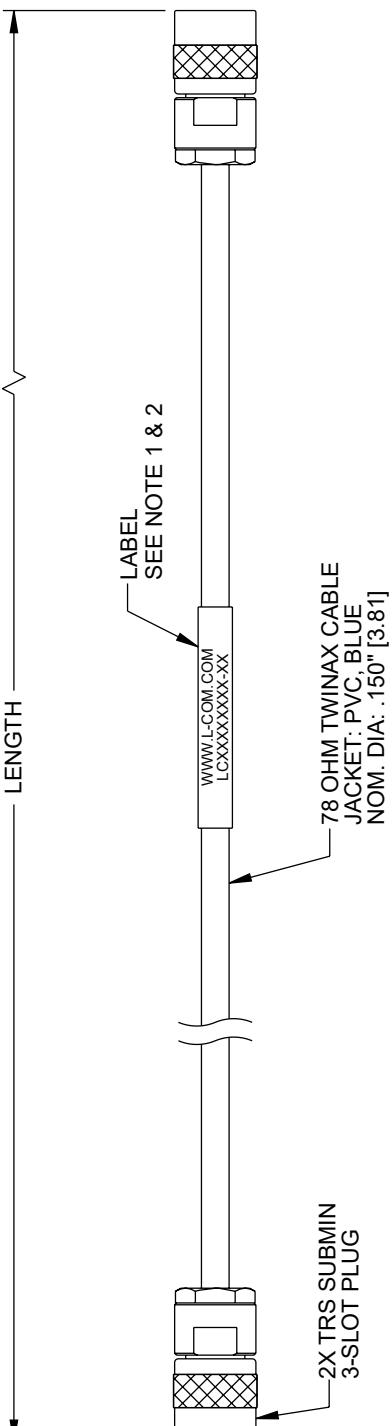
1553 TRS Subminiature Plug to TRS Subminiature Plug Cable Assembly using 30-02003-LC Coax, 1 FT from L-com has same day shipment for domestic and International orders. L-com is a leading manufacturer of wired and wireless connectivity products and committed to in-stock availability and same day shipping. 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 implement 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 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 implement 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

| | | |
|------|-----|---|
| ZONE | REV | A |
|------|-----|---|

— LENGTH —



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED:
LC3MP2018-XX (-XX = OAL IN INCHES)
CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
- 2.
- 3.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN WHOLE OR IN PART, OR THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

| | | | |
|---|--|--|--|
|  L-com® an INFINITE brand | |  INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE SHEET | |
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: | | DESCRIPTION Phone: 1.800.341.5266 1.978.682.6936 Web: www.L-com.com | |
| $.X \pm .2$ [5] $.XX \pm .02$ [0.5] $.XXX \pm .002$ [0.13] | | FRACTIONS $\pm 1/32$ $\pm 1/16$ $\pm 1/8$ | CABLE LENGTH TOLERANCES: ± 12 [305] ± 60 [1524] ± 120 [3048] |
| | | | TR5 Subminiature Plug to TRS Subminiature Plug 1553 Cable Using |

ALL DIMENSIONS ARE FOR REFERENCE ONLY
NOT DRAWN TO SCALE, WHICH NOTICE
SHOULD NOT BE USED FOR CONSTRUCTION
DIMENSIONS MAY VARY IN SIZE AND LOCATION
DRAWN BY: L. D. COON
ITEM NO. 100000000000
REV A
78 Ohm 30-02003-LC Coax