

1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable Assembly  
using 30-02003-LC Coax, 5 FT , LF Solder



## LC3MSA00470-60

### Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Slot Plug
- Cable Type: 30-02003-LC

### Features

- MIL-STD-1553
- -20°C to +75°C
- 78 ohms
- Lab rated
- Lead Free

### Applications

- MIL-STD-1553
- Data
- Lab applications

### Description

L-com's LC3MSA00470-60 is a 1553 TRB 3-Slot plug to TRB 3-Slot plug cable assembly using 30-02003-LC coax, 5 FT , LF solder and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Slot to TRB 3-Slot cable assembly has a plug to plug gender configuration with 78 Ohm flexible 30-02003-LC series coax and operates to 500 MHz. The LC3MSA00470 it's a Lead Free assembly consisting of a 3-slot solder/clamp TRB plug to 3-slot solder/clamp TRB plug for FMBC-30-02003, that is a standard lab-rated PVC cable for MIL-STD-1553 applications, with an O.D. 0.150"

Custom versions of this TRB 3-Slot plug to TRB 3-Slot 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 LC3MSA00470-60 L-com 1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 5 FT , LF Solder 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.)	0.465	0.795	1.04	1.385	2.075	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.

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### Mechanical Specifications

#### Cable Assembly

Length*	60 in [152.4 cm]
Weight	0.337 lbs [152.86 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]
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### Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug	TRB 3-Slot 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
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**Compliance Certifications** (see [product page](#) for current document)

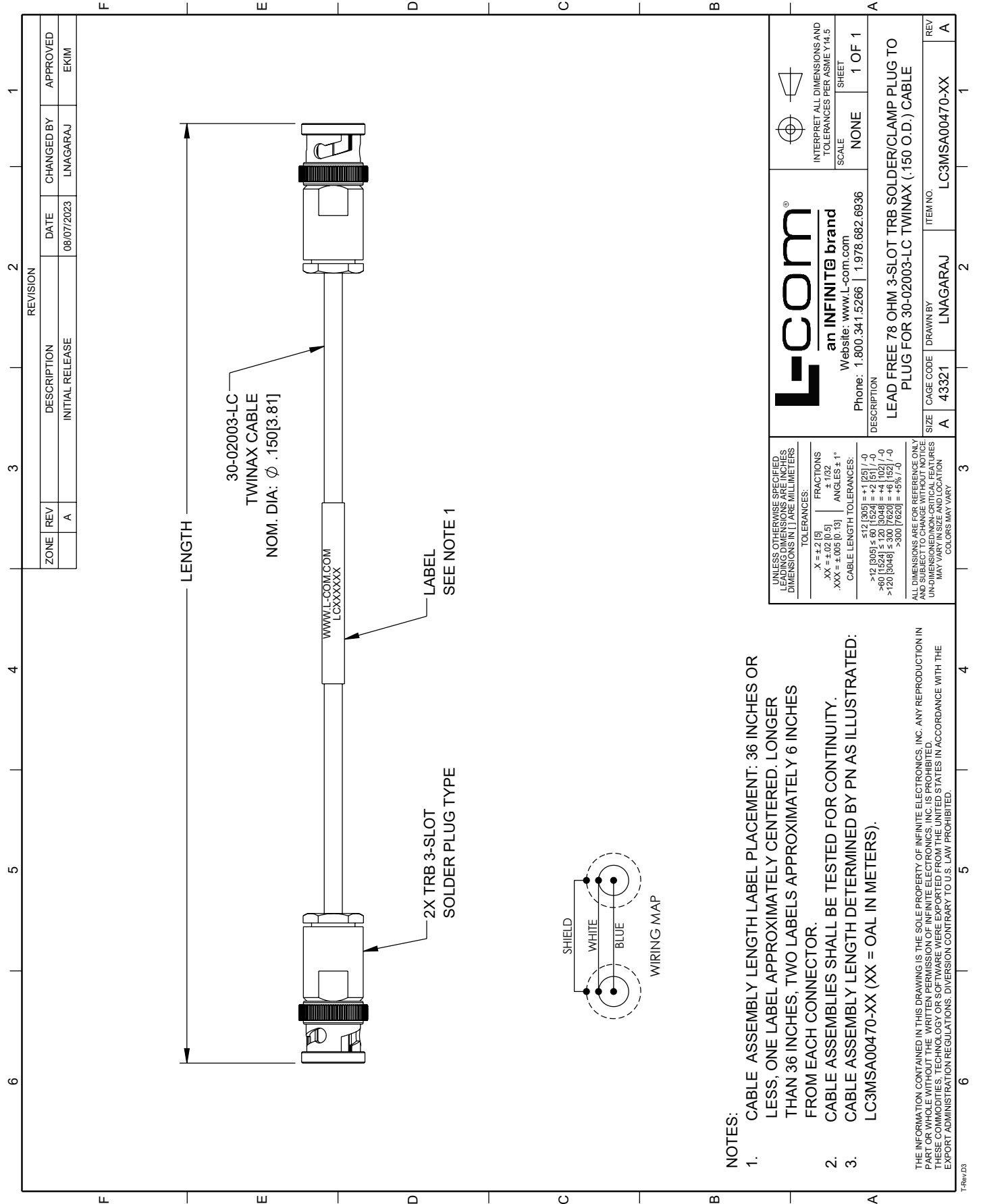
### Plotted and Other Data

Notes:



1553 TRB 3-Slot Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 5 FT , LF Solder

L-com CAD Drawing



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	08/07/2023	LNAGARAJ	EKIM

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	A	INITIAL RELEASE	08/07/2023	LNAGARAJ	EKIM

NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3MSA00470-XX (XX = OAL IN METERS).

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<p><b>L-com</b> an INFINITE brand Website: <a href="http://www.l-com.com">www.l-com.com</a> Phone: 1.800.341.5266   1.978.682.6936</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1</p>
<p>DESCRIPTION: LEAD FREE 78 OHM 3-SLOT TRB SOLDER/CLAMP PLUG TO PLUG FOR 30-02003-LC TWINAX (.150 O.D.) CABLE</p>		
SIZE: A	CAGE CODE: 43321	ITEM NO: LC3MSA00470-XX
DRAWN BY: LNAGARAJ		REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [ ] ARE IN MILLIMETERS

TOLERANCES:

.X = ±.2 [5]	FRACTIONS
.XX = ±.02 [0.5]	± 1/32
.XXX = ±.005 [0.13]	ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 60 [1524] = +1 [25] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +5 [127] / -0
>300 [7620] = +5.9 [150] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

