

TRT Threaded Plug to TRT Threaded Plug 1553 Cable
24" Using 124 Ohm TWC-124-2 Twinax



LC3MSA00676-24

Configuration

- Connector 1: TRT Threaded Plug
- Connector 2: TRT Threaded Plug
- Cable Type: TWC-124-2

Features

- 124 ohms
- Twinaxial
- MIL-STD-1553B
- -40°C to +80°C
- Lead Free Solder
- Standard and Custom Lengths Available

Applications

- MIL-STD-1553B Applications
- Data Transmission

Description

L-com's LC3MSA00676-24 is a TRT threaded plug to TRT threaded plug 1553 cable 24" using 124 Ohm TWC-124-2 twinax and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRT Threaded to TRT Threaded cable assembly has a plug to plug gender configuration with 78 Ohm flexible TWC-124-2 series coax and operates to 500 MHz.

Custom versions of this TRT Threaded plug to TRT Threaded 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 LC3MSA00676-24 L-com TRT Threaded Plug to TRT Threaded Plug 1553 Cable 24" Using 124 Ohm TWC-124-2 Twinax 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		12.3 [40.35]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.234	0.272	0.302	0.344	0.428	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* 24 in [609.6 mm]
Weight 0.33 lbs [149.69 g]

Cable

Cable Type TWC-124-2
Impedance 124 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 1.25 in [31.75 mm]

Connectors

Description	Connector 1	Connector 2
Type	TRT Threaded Plug	TRT Threaded Plug
Specification	MIL-STD-1553	MIL-STD-1553
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

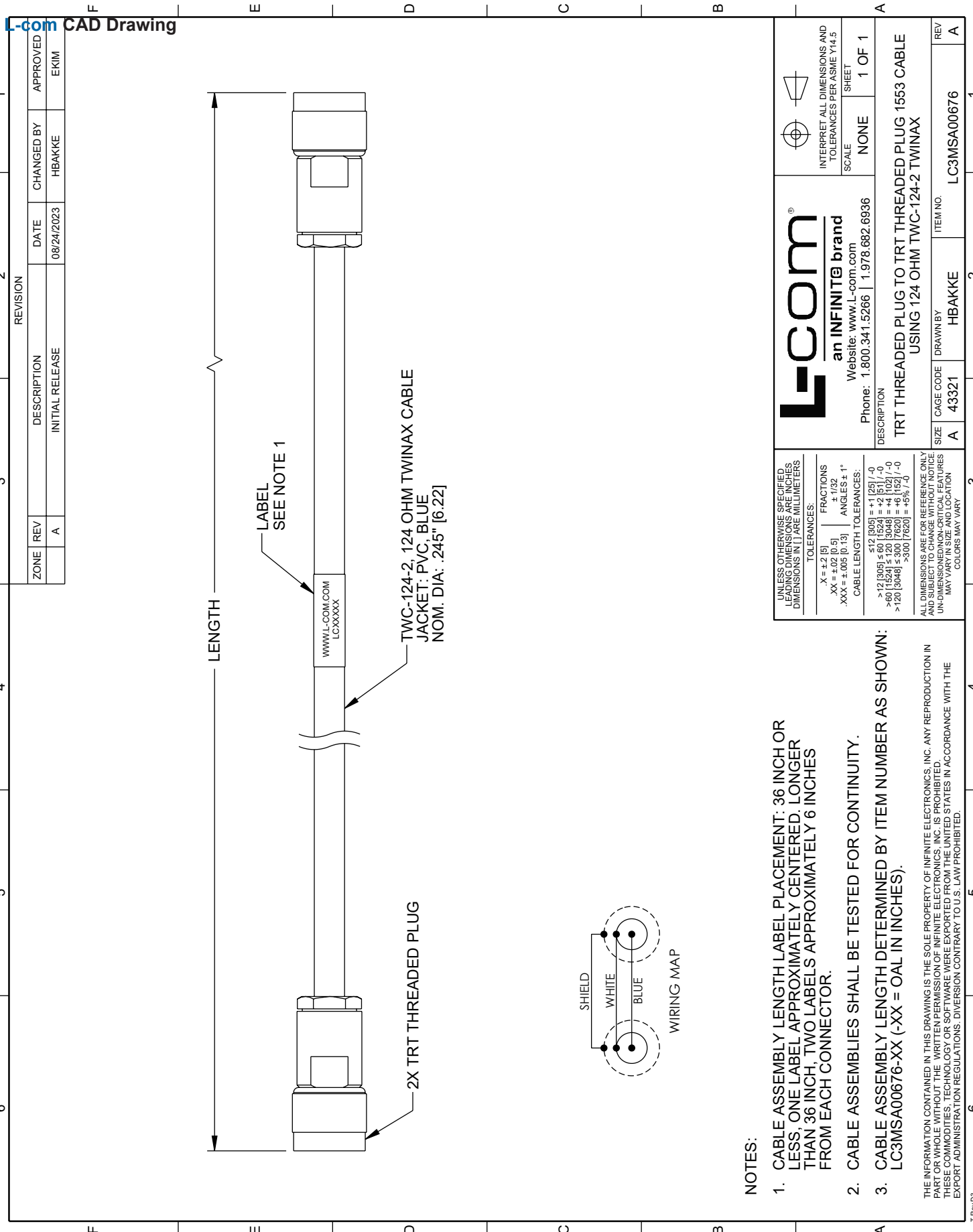
Operating Range -40 to +80 deg C

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

Plotted and Other Data

Notes:

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	08/24/2023	HBAKKE	EKIM

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LENGTH

WWW.L-COM.COM LCXXXXX

TWC-124-2, 124 OHM TWINAX CABLE
JACKET: PVC, BLUE
NOM. DIA: .245" [6.22]

2X TRT THREADED PLUG

LABEL
SEE NOTE 1

SHIELD
WHITE
BLUE
WIRING MAP

NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AS SHOWN: LC3MSA00676-XX (-XX = OAL IN INCHES).

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

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

CABLE LENGTH TOLERANCES:
<12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

Phone: 1.800.341.5266 | 1.978.682.6936

TRT THREADED PLUG TO TRT THREADED PLUG 1553 CABLE USING 124 OHM TWC-124-2 TWINAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	HBAKKE	LC3MSA00676

USA & Canada (800) 341-5266 | International (978) 682-6936 | l-com.com