TRT Threaded Plug to Blunt Cut 1553 Cable 48" Using 124 Ohm TWC-124-2 Twinax

LC3MSA00677-48

Configuration

- Connector 1: TRT Threaded Plug
- Connector 2: Blunt Cut Genderless
- 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 LC3MSA00677-48 is a TRT threaded plug to blunt cut 1553 cable 48" 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 Blunt Cut cable assembly has a plug to genderless 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 genderless 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 LC3MSA00677-48 L-com TRT Threaded Plug to Blunt Cut 1553 Cable 48" 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

Insertion Loss (Typ.)

Mechanical Specifications

Cable Assembly
Length*	48 in [121.92 cm]
Weight	0.2662 lbs [120.75 g]

Cable
Cable Type	TWC-124-2
Impedance	124 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver

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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	Blunt Cut Genderless
Specification	MIL-STD-1553	
Impedance	78 Ohms	
Contact Material and Plating	Bronze, Gold 30 micro inches	
Contact Plating Specification	ASTM-B-488	
Dielectric Type	Teflon	
Outer Conductor Material and Plating	Phosphor Bronze, Gold	
Outer Conductor Plating Specification	30 micro inches	
Body Material and Plating	Brass, Nickel	
Body Plating Specification	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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LC3MSA00677-48

How to Order

Part Number Configuration: LC3MSA00677   **- xx   uu**

Unit of Measure:
  cm = Centimeters
  <blank> = Inches
Length
Base Number
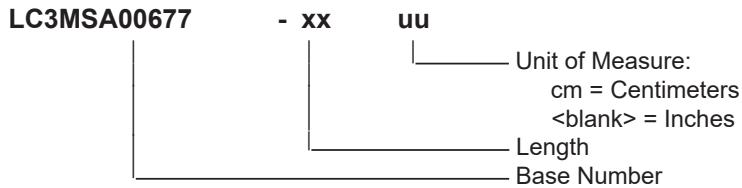
Example: LC3MSA00677-12 = 12 inches long cable
LC3MSA00677-100cm = 100 cm long cable

TRT Threaded Plug to Blunt Cut 1553 Cable 48" Using 124 Ohm TWC-124-2 Twinax 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.

USA & Canada **+1(800) 341-5266** | International **+1(978) 682-6936** | **l-com.com**

TRT Threaded Plug to Blunt Cut 1553 Cable 48" Using 124 Ohm TWC-124-2 Twinax

L-com CAD Drawing

BLUNT CUT

LABEL
SEE NOTE 1

WWW.L-COM.COM
LCXXXXX

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

LENGTH

TRT THREADED PLUG

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:
   LC3MSA00677-XX (-XX = OAL IN INCHES).

REVISION

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

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

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

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.
UN-DIMENSIONED/NON-CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

L-com®
an INFINITE brand
Website: www.L-com.com
Phone: 1.800.341.5266 | 1.978.682.6936

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

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	HBAKKE	LC3MSA00677	A

T-RevD3