

Halogen Free 1553 TRB 3-Lug Jack to TRB 3-Lug Jack Cable Assembly using TWCH-78-2 Coax, 3 FT with Bend Relief



## LC3MSA00237-36

### Configuration

- Connector 1: TRB 3-Lug Jack
- Connector 2: TRB 3-Lug Jack
- Cable Type: TWCH-78-2

### Features

- MIL-STD-1553
- -30°C to +80°C
- 78 ohms
- Halogen Free
- Non-Toxic

### Applications

- Military Contractors
- MIL-STD-1553
- Data
- Safer Environments
- Ventilation critical areas

### Description

L-com's LC3MSA00237-36 is a halogen free 1553 TRB 3-Lug jack to TRB 3-Lug jack cable assembly using TWCH-78-2 coax, 3 FT with bend relief and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Lug to TRB 3-Lug cable assembly has a jack to jack gender configuration with 78 Ohm flexible TWCH-78-2 series coax and operates to 500 MHz.

Custom versions of this TRB 3-Lug jack to TRB 3-Lug jack 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 LC3MSA00237-36 L-com Halogen Free 1553 TRB 3-Lug Jack to TRB 3-Lug Jack Cable Assembly using TWCH-78-2 Coax, 3 FT with Bend Relief 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		21.2 [69.55]		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.)	0.266	0.353	0.425	0.515	0.68	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*	36 in [914.4 mm]
Weight	0.228 lbs [103.42 g]

#### Cable

Cable Type	TWCH-78-2
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	HF POF, Blue

One Time Minimum Bend Radius	1.25 in [31.75 mm]
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### Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Lug Jack	TRB 3-Lug Jack
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	-30 to +80 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

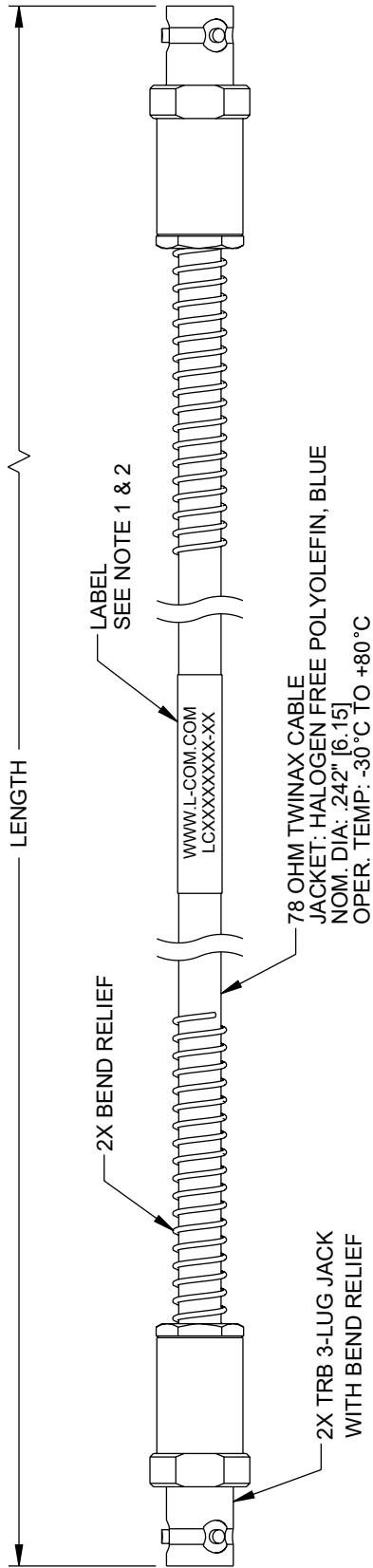
Notes:



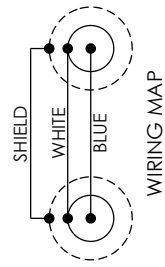
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L-com CAD Drawing

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	8/28/2023	KDANG	EKIM



78 OHM TWINAX CABLE  
JACKET: HALOGEN FREE POLYOLEFIN, BLUE  
NOM. DIA: .242" [6.15]  
OPER. TEMP: -30 °C TO +80 °C



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.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: LC3MSA00237-XX (-XX = OAL IN INCHES)
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
< 12 [305]	± 1/16 [1.5]
> 12 [305] < 60 [1524]	± 1/8 [3.175]
> 60 [1524] < 120 [3048]	± 1/4 [6.35]
> 120 [3048] < 300 [7620]	± 3/8 [9.525]
> 300 [7620]	± 1/2 [12.7]
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY. COLORS MAY VARY.	

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

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DESCRIPTION: Halogen Free Bend Relief 3-Lug TRB Jack to Jack for 78 Ohm TWCH-78-2 Cable

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	KDANG	LC3MSA00237