

Halogen Free 1553 TRB 3-Slot Plug to Blunt Cut Cable Assembly using TWCH-78-2-LC Coax, 2 FT



LC3MSA00225-24

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: Blunt Cut
- Cable Type: TWCH-78-2-LC

Features

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

Applications

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

Description

L-com's LC3MSA00225-24 is a halogen free 1553 TRB 3-Slot plug to blunt cut cable assembly using TWCH-78-2-LC coax, 2 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Slot to Blunt Cut cable assembly has a plug to sexless gender configuration with 78 Ohm flexible TWCH-78-2-LC series coax and operates to 500 MHz. The LC3MSA00225 cable assembly consists of a 78 Ohm Halogen Free 3-Slot TRB Solder/Clamp Plug with Blunt Cut for TWCH-78-2 cable (.242 O.D.) suitable for MIL-STD-1553 Applications. The zero halogen jacket cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, zero halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gases is critical.

Custom versions of this TRB 3-Slot plug to TRB 3-Slot sexless 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 LC3MSA00225-24 L-com Halogen Free 1553 TRB 3-Slot Plug to Blunt Cut Cable Assembly using TWCH-78-2-LC Coax, 2 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		21.2 [69.55]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

Insertion Loss (Typ.)
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.

Mechanical Specifications

Cable Assembly	
Length*	24 in [609.6 mm]

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Assembly using TWCH-78-2-LC Coax, 2 FT



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Weight	0.22 lbs [99.79 g]
Cable	
Cable Type	TWCH-78-2-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	HF POF, Blue
One Time Minimum Bend Radius	1.25 in [31.75 mm]

Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug	Blunt Cut
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

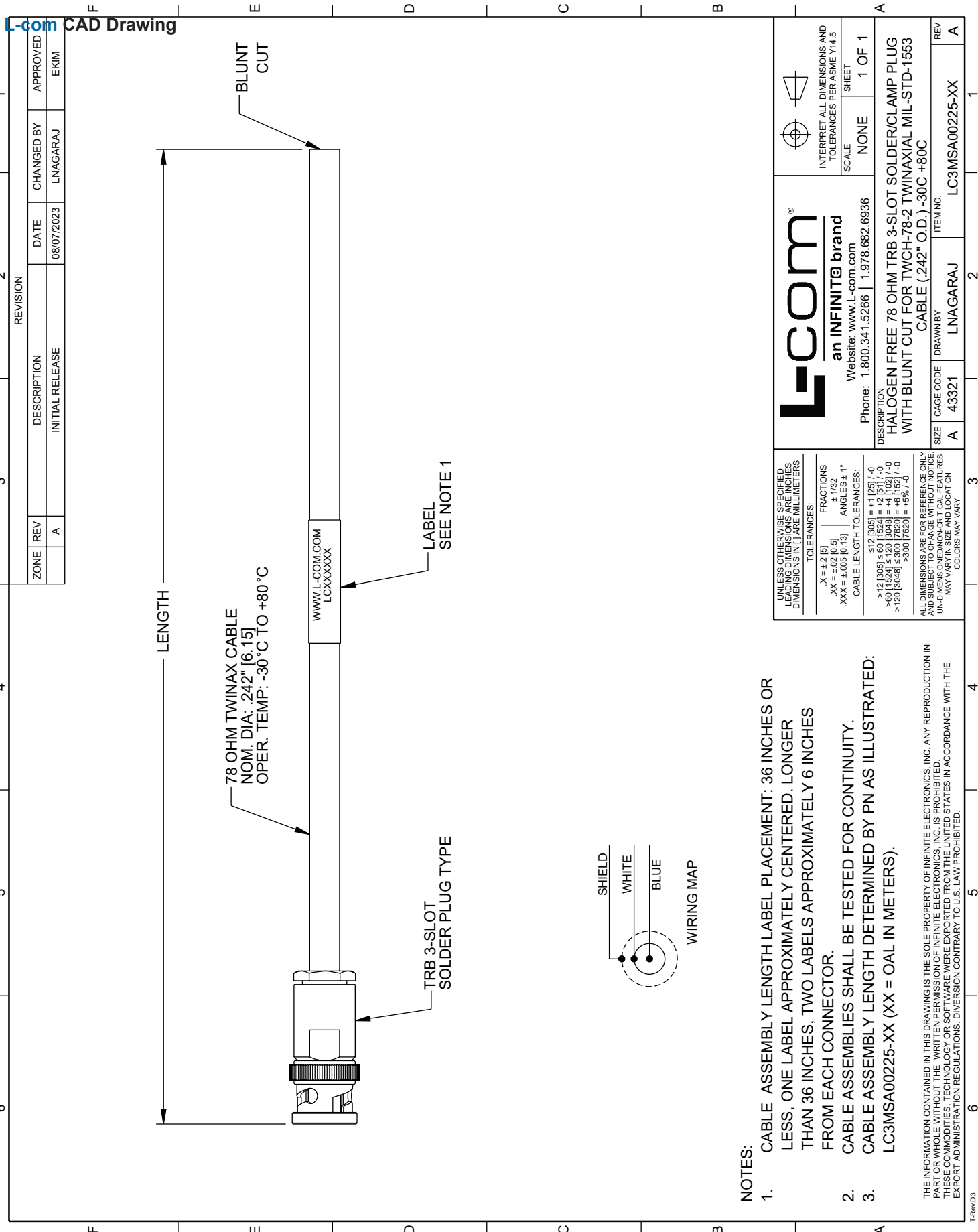
Operating Range -30 to +80 deg C

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

Plotted and Other Data

Notes:

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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: LC3MSA00225-XX (XX = OAL IN METERS).

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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]	± 1/25 [1.25] / -0
> 12 [305] < 60 [1524]	± 1/25 [1.25] / -0
> 60 [1524] < 120 [3048]	± 1/25 [1.25] / -0
> 120 [3048] < 300 [7620]	± 1/25 [1.25] / -0
> 300 [7620]	± 1/25 [1.25] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. DIMENSIONAL VARIATION MAY VARY. COLORS MAY VARY.	

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DESCRIPTION
HALOGEN FREE 78 OHM TRB 3-SLOT SOLDER/CLAMP PLUG WITH BLUNT CUT FOR TWCH-78-2 TWINAXIAL MIL-STD-1553 CABLE (.242" O.D.) -30C +80C

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	LNAGARAJ	LC3MSA00225-XX

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SHEET	1 OF 1
SCALE	NONE	