1553 TRB 3-Slot Plug to TRS Subminiature Plug Cable Assembly using M17/176-00002-LC Coax, 4 FT , LF Solder

LC3MSA00456-48

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRS Subminiature Plug
- Cable Type: M17-176-00002-LC

Features

- MIL-STD-1553
- -55°C to +200°C
- 78 ohms

Applications

- Vehicle High Temperature
- Data
- MIL-STD-1553

Description

L-com's LC3MSA00456-48 is a 1553 TRB 3-Slot plug to TRS subminiature plug cable assembly using M17/176-00002-LC coax, 4 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 TRS Subminiature cable assembly has a plug to plug gender configuration with 78 Ohm flexible M17-176-00002-LC series coax and operates to 10 MHz.

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 LC3MSA00456-48 L-com 1553 TRB 3-Slot Plug to TRS Subminiature Plug Cable Assembly using M17/176-00002-LC Coax, 4 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		10	MHz
Capacitance		24 [78.74]		pF/ft [pF/m]
Operating Voltage (AC)			750,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.256	0.284	0.312	0.34	0.38	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*	48 in [121.92 cm]
Weight	0.307 lbs [139.25 g]

Cable

Cable Type	M17-176-00002-LC
Impedance	78 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Shield Layer 1	Silver Plated Copper
Jacket Material	PFA, Blue
One Time Minimum Bend Radius	1.5 in [38.1 mm]

Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug	TRS Subminiature 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	-55 to +200 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

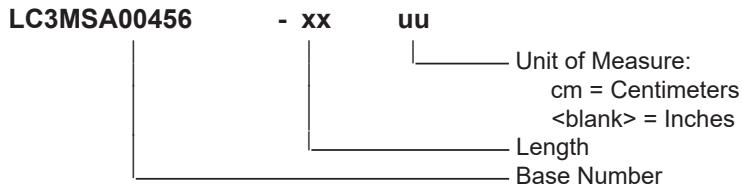USA & Canada **+1(800) 341-5266** | International **+1(978) 682-6936** | **l-com.com**

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LC3MSA00456-48

How to Order

Part Number Configuration: **LC3MSA00456   - xx   uu**

Unit of Measure:
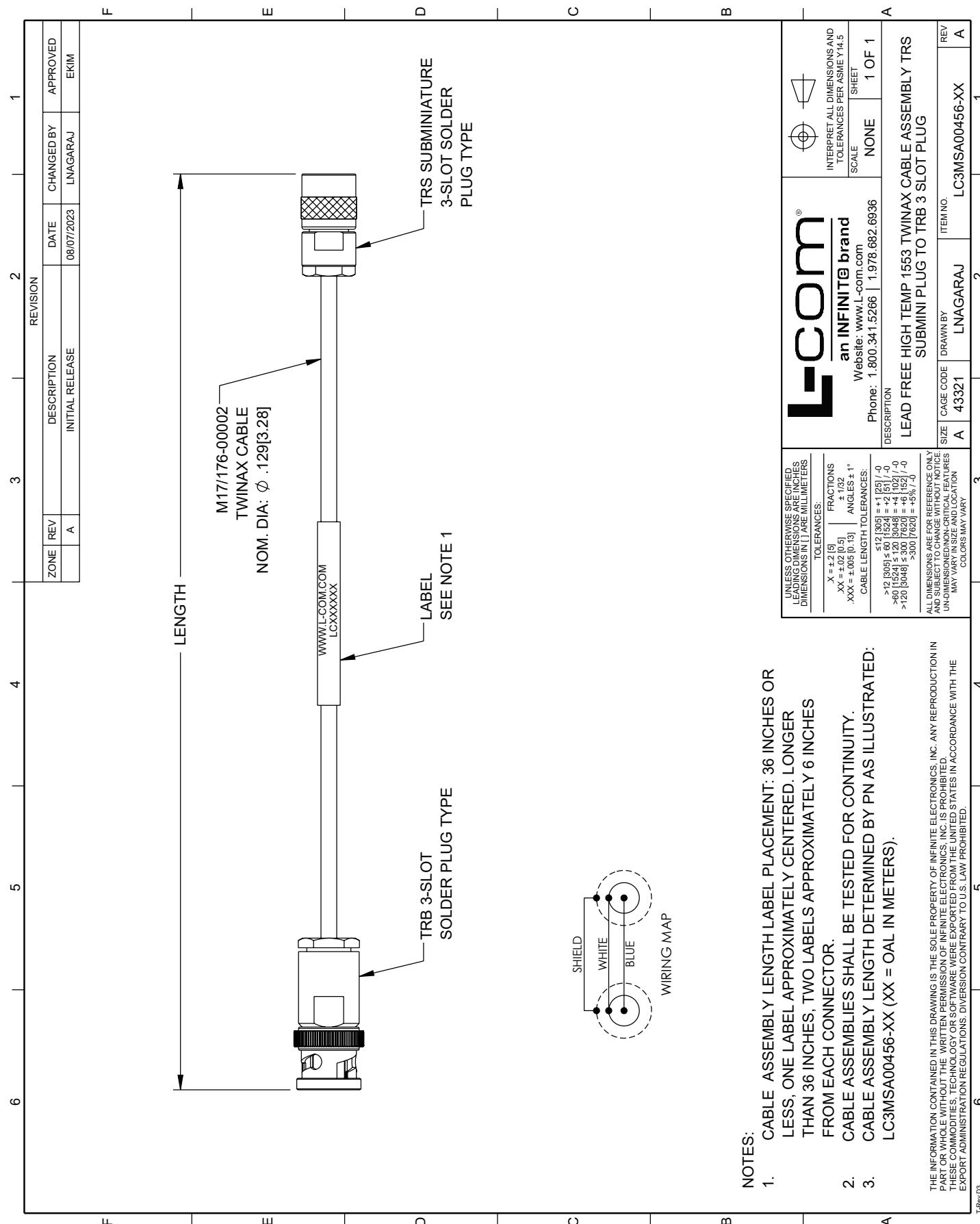cm = Centimeters
<blank> = Inches
Length
Base Number

Example: LC3MSA00456-12 = 12 inches long cable
LC3MSA00456-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRS Subminiature Plug Cable Assembly using M17/176-00002-LC Coax, 4 FT , LF Solder 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.

1553 TRB 3-Slot Plug to TRS Subminiature Plug Cable Assembly using M17/176-00002-LC Coax, 4 FT , LF Solder

L-com CAD Drawing

TRS SUBMINIATURE
3-SLOT SOLDER
PLUG TYPE

M17/176-00002
TWINAX CABLE
NOM. DIA: ⌀ .129[3.28]

LENGTH

WWW.L-COM.COM
LCXXXXXX

LABEL
SEE NOTE 1

TRB 3-SLOT
SOLDER PLUG TYPE

SHIELD
WHITE
BLUE

WIRING MAP

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: LC3MSA00456-XX (XX = OAL IN METERS).

REVISION

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

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

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

DESCRIPTION: LEAD FREE HIGH TEMP 1553 TWINAX CABLE ASSEMBLY TRS SUBMINI PLUG TO TRB 3 SLOT PLUG

SIZE	CAGE CODE	DRAWN BY		ITEM NO.	REV
A	43321	LNAGARAJ		LC3MSA00456-XX	A

T-Rev.D3