

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using M17/176-00002-LC Coax, 5 FT



LC3MP2059-60

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRB 3-Lug Jack
- 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 LC3MP2059-60 is a 1553 TRB 3-Slot plug to TRB 3-Lug jack cable assembly using M17/176-00002-LC coax, 5 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 TRB 3-Lug cable assembly has a plug to jack gender configuration with 78 Ohm flexible M17-176-00002-LC series coax and operates to 10 MHz. The LC3MP2059 cable assembly consists of a 3-slot solder/clamp TRB plug to 3-lug solder/clamp TRB jack on M17-176-00002-LC Twinax cable, that is in the High Temperature-rated bus cabling category for MIL-STD-1553 applications. This thicker cable (0.129" O.D.) provides a robust cabling solution with less attenuation per foot. These assemblies are built to withstand severe shocks and vibrations.

Custom versions of this TRB 3-Slot plug to TRB 3-Slot 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 LC3MP2059-60 L-com 1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using M17/176-00002-LC Coax, 5 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		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.)	0.27	0.305	0.34	0.375	0.425	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.

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable
Assembly using M17/176-00002-LC Coax, 5 FT



LC3MP2059-60

Mechanical Specifications

Cable Assembly

Length*	60 in [152.4 cm]
Weight	0.367 lbs [166.47 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]
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Connectors

Description	Connector 1	Connector 2
Type	TRB 3-Slot Plug	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	-55 to +200 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using M17/176-00002-LC Coax, 5 FT



LC3MP2059-60

How to Order

Part Number Configuration:

LC3MP2059 - xx uu

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

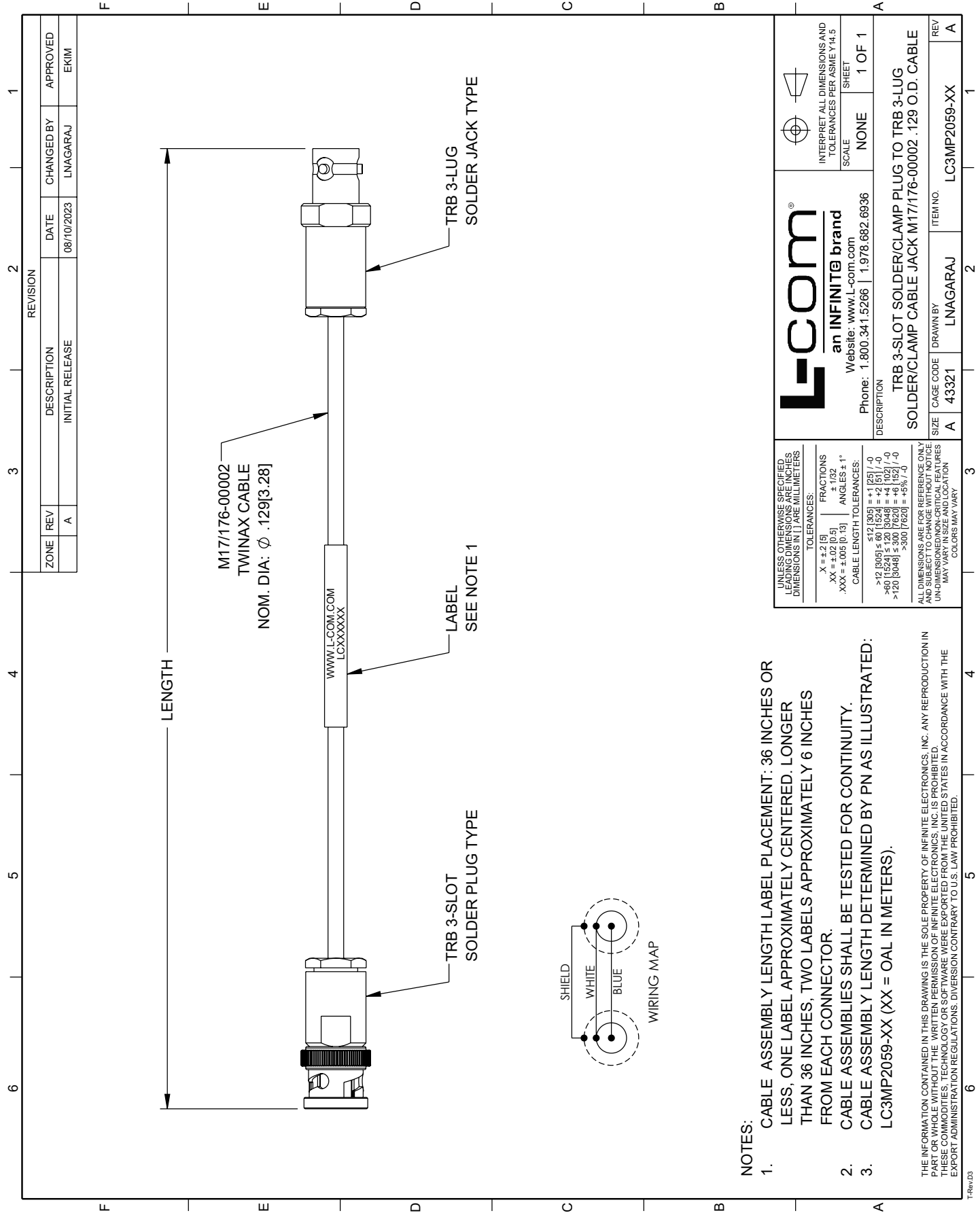
Example: LC3MP2059-12 = 12 inches long cable
LC3MP2059-100cm = 100 cm long cable

1553 TRB 3-Slot Plug to TRB 3-Lug Jack Cable Assembly using M17/176-00002-LC Coax, 5 FT 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 implement 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 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 implement 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.

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L-com CAD Drawing



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	08/10/2023	LNAGARAJ	EKIM

L-com
an INFINITE brand
Website: www.l-com.com
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE IN MILLIMETERS.
TOLERANCES:
X = ±.2 [5]
.XX = ±.02 [0.5]
.XXX = ±.005 [0.13]
FRACTIONS ± 1/32
ANGLES ± 1°
CABLE LENGTH TOLERANCES:
≤12 [305] = ±.125 [-0]
>12 [305] ≤ 60 [1524] = ±.25 [-0]
>60 [1524] ≤ 120 [3048] = ±.5 [-0]
>120 [3048] ≤ 300 [7620] = ±.75 [-0]
>300 [7620] = ±.9 [-0]

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

DESCRIPTION
TRB 3-SLOT SOLDER/CLAMP PLUG TO TRB 3-LUG SOLDER/CLAMP CABLE JACK M17/176-00002 .129 O.D. CABLE

SIZE A
CAGE CODE 43321
DRAWN BY LNAGARAJ
ITEM NO. LC3MP2059-XX
REV A

- NOTES:
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY PN AS ILLUSTRATED: LC3MP2059-XX (XX = OAL IN METERS).
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