

78 Ohm TRT Threaded Solder/Clamp Plug To TRB 3-Slot Solder/Clamp Plug M17/176-00002 Cable 1'



LC3MP2144-12

Configuration

- Connector 1: TRB 3-Slot Plug
- Connector 2: TRT Threaded Plug
- Cable Type: M17/176-00002

Features

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

Applications

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

Description

L-com's LC3MP2144-12 is a 78 Ohm TRT threaded solder/clamp plug to TRB 3-Slot solder/clamp plug M17/176-00002 cable 1' and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRB 3-Slot to TRT Threaded cable assembly has a plug to plug gender configuration with 78 Ohm flexible M17/176-00002 series coax and operates to 10 MHz. L-com's LC3MP2144-12 is a TRT Threaded solder/clamp plug to TRB 3-slot solder/clamp plug M17/176-00002 .129 O.D. cable assembly from L-Com. These cable assemblies have popular TRB plug connectors with 3-lug bayonet coupling designs as well as TRB plugs with threaded designs. These MIL-STD-1553 Twinaxial cable assemblies with TRB and TRT connector interfaces are the most popular cable assemblies used in wide interconnect applications to be used with bus couplers, avionics control boxes, and bus relays.

The LC3MP2144-12 TRT Threaded solder/clamp plug to TRB 3-slot solder/clamp plug M17/176-00002 .129 O.D. MIL-STD-1553 cable assemblies are bend/strain relief and have a high temperature feature of +200 °C. These cable assemblies have Twinax connectivity and are ideal for applications such as Aircraft avionics and test labs. These cable assemblies can withstand severe shocks and vibrations, making them critical avionics components. The TRT Threaded solder/clamp plug to TRB 3-slot solder/clamp plug M17/176-00002 .129 O.D. cable assemblies have a robust design and are easy to use.

L-com has one of the largest in-stock selections of TRT Threaded solder/clamp plug to TRB 3-slot solder/clamp plug M17/176-00002 .129 O.D. MIL-STD-1553 cable assemblies with same-day shipment. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal TRT Threaded solder/clamp plug to TRB 3-slot solder/clamp plug M17/176-00002 .129 O.D. MIL-STD-1553 cable assemblies for your requirements.

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 LC3MP2144-12 L-com 78 Ohm TRT Threaded Solder/Clamp Plug To TRB 3-Slot Solder/Clamp Plug M17/176-00002 Cable 1' 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

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LC3MP2144-12

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.214	0.221	0.228	0.235	0.245	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.

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.193 lbs [87.54 g]

Cable

Cable Type	M17/176-00002
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	TRT Threaded 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

78 Ohm TRT Threaded Solder/Clamp Plug To TRB 3-Slot
Solder/Clamp Plug M17/176-00002 Cable 1'



LC3MP2144-12

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C

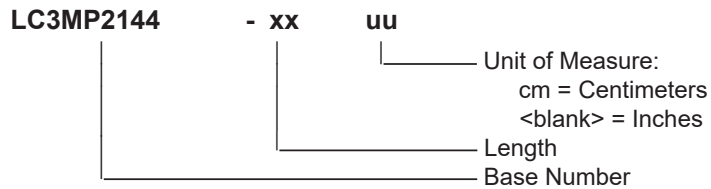
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

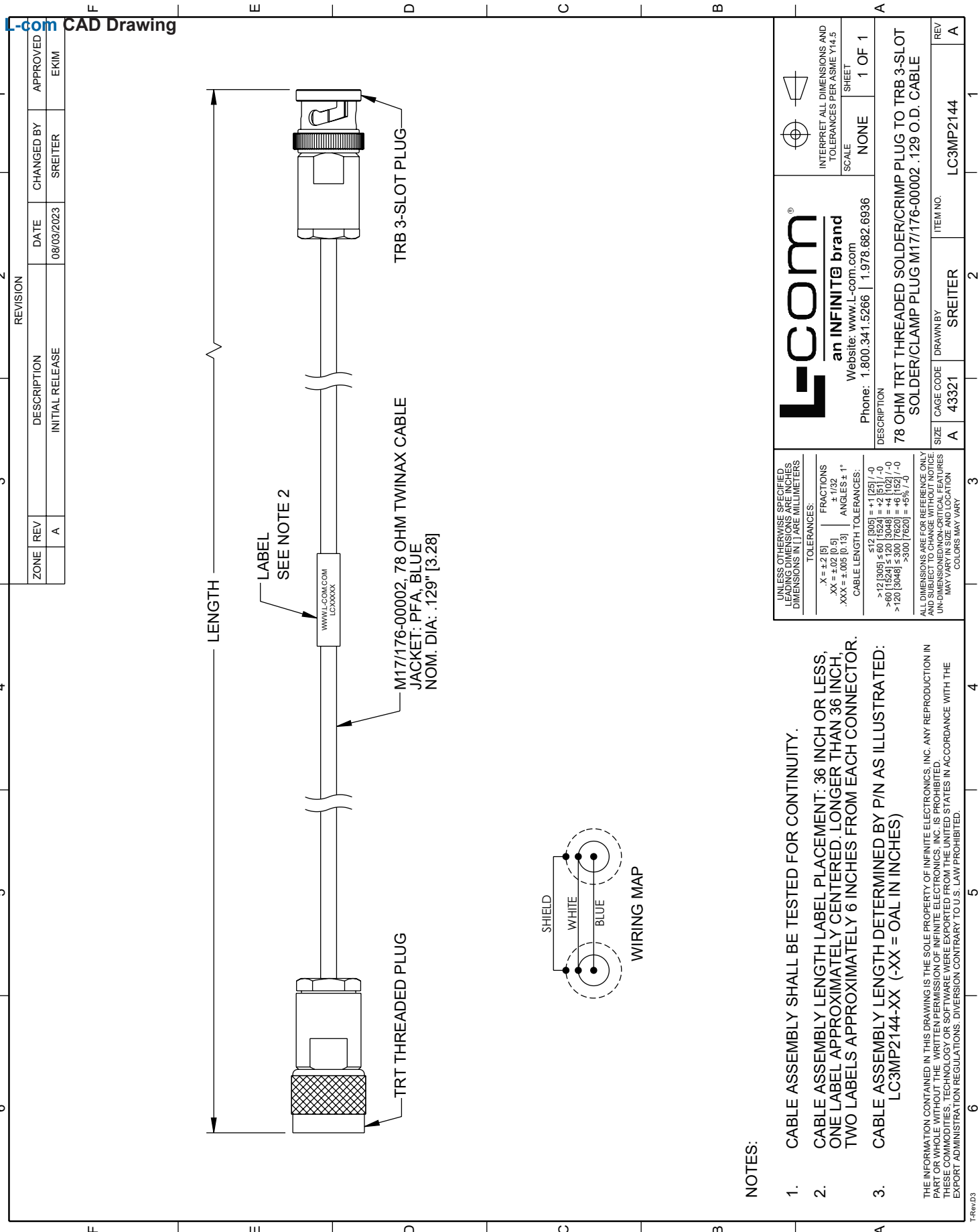
Part Number Configuration:



Example: LC3MP2144-12 = 12 inches long cable
LC3MP2144-100cm = 100 cm long cable

78 Ohm TRT Threaded Solder/Clamp Plug To TRB 3-Slot Solder/Clamp Plug M17/176-00002 Cable 1' 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.



L-com CAD Drawing

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	08/03/2023	SREITER	EKIM

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	08/03/2023	SREITER	EKIM

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

DESCRIPTION
78 OHM TRT THREADED SOLDER/CRIMP PLUG TO TRB 3-SLOT SOLDER/CLAMP PLUG M17/176-00002 .129 O.D. CABLE

SCALE NONE **SHEET** 1 OF 1

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

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]

FRACTIONS
± 1/32

ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 $\leq 12 [305]$ = +1 [25] / -0
 $> 12 [305] \leq 60 [1524]$ = +2 [51] / -0
 $> 60 [1524] \leq 120 [3048]$ = +4 [102] / -0
 $> 120 [3048] \leq 300 [7620]$ = +6 [152] / -0
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS DIMENSIONS ON CRITICAL FEATURES MAY VARY. COLORS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

- NOTES:**
- CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY LENGTH DETERMINED BY P/N AS ILLUSTRATED: LC3MP2144-XX (-XX = OAL IN INCHES)
- THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS, DIVISION CONTRARY TO U.S. LAW PROHIBITED.