

Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 2 FT



LC3MSA00490-24

Configuration

- Connector 1: TRS Subminiature Plug
- Connector 2: TRB 3-Slot Plug
- Cable Type: 30-02003-LC

Features

- MIL-STD-1553
- -20°C to +75°C
- 78 ohms

Applications

- MIL-STD-1553
- Data

Description

L-com's LC3MSA00490-24 is a lead free 1553 TRS subminiature plug to TRB 3-Slot plug cable assembly using 30-02003-LC coax, 2 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRS Subminiature to TRB 3-Slot cable assembly has a plug to plug gender configuration with 78 Ohm flexible 30-02003-LC series coax and operates to 500 MHz.

Custom versions of this TRS Subminiature plug to TRS Subminiature 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 LC3MSA00490-24 L-com Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-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		20.3 [66.6]		pF/ft [pF/m]
Operating Voltage (AC)			300	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	10	50	100	200	500	MHz
Insertion Loss (Typ.)	0.306	0.438	0.536	0.674	0.95	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.

Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug
Cable Assembly using 30-02003-LC Coax, 2 FT



LC3MSA00490-24

Mechanical Specifications

Cable Assembly

Length*	24 in [609.6 mm]
Weight	0.125 lbs [56.7 g]

Cable

Cable Type	30-02003-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	PVC, Blue

One Time Minimum Bend Radius	1.5 in [38.1 mm]
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Connectors

Description	Connector 1	Connector 2
Type	TRS Subminiature Plug	TRB 3-Slot 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	-20 to +75 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug
Cable Assembly using 30-02003-LC Coax, 2 FT



LC3MSA00490-24

How to Order

Part Number Configuration:

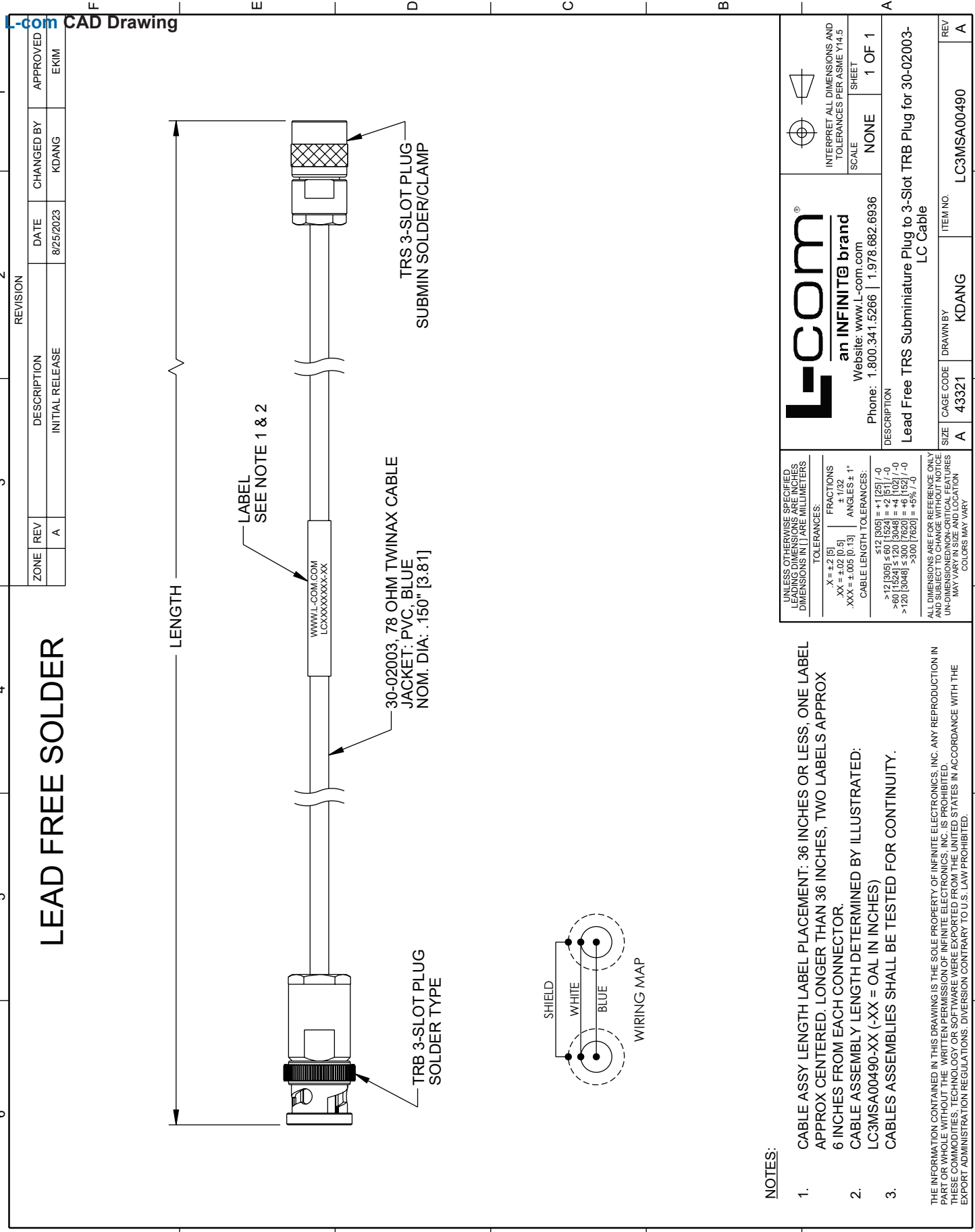
LC3MSA00490 - xx uu



Example: LC3MSA00490-12 = 12 inches long cable
LC3MSA00490-100cm = 100 cm long cable

Lead Free 1553 TRS Subminiature Plug to TRB 3-Slot Plug Cable Assembly using 30-02003-LC Coax, 2 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 impliment 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.ontained 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 impliment 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.



LEAD FREE SOLDER

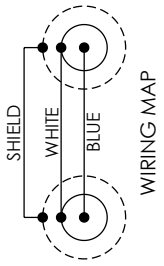
LENGTH

LABEL
SEE NOTE 1 & 2

30-02003, 78 OHM TWINAX CABLE
JACKET: PVC, BLUE
NOM. DIA: .150" [3.81]

TRB 3-SLOT PLUG
SOLDER TYPE

TRS 3-SLOT PLUG
SUBMIN SOLDER/CLAMP



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: LC3MSA00490-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] ≤ 60 [1524] = +2 [51] / -0	
> 60 [1524] ≤ 120 [3048] = +4 [102] / -0	
> 120 [3048] ≤ 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.

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

DESCRIPTION
Lead Free TRS Subminiature Plug to 3-Slot TRB Plug for 30-02003-LC Cable

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	KDANG	LC3MSA00490

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	8/25/2023	KDANG	EKIM