

Lead Free 1553 TRS Subminiature Plug to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 1 FT



## LC3MSA00458-12

### Configuration

- Connector 1: TRS Subminiature Plug
- Connector 2: Blunt Cut Genderless
- 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 LC3MSA00458-12 is a lead free 1553 TRS subminiature plug to blunt cut genderless cable assembly using M17/176-00002 coax, 1 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRS Subminiature to Blunt Cut cable assembly has a plug to genderless gender configuration with 78 Ohm flexible M17/176-00002 series coax and operates to 10 MHz.

Custom versions of this TRS Subminiature plug to TRS Subminiature genderless 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 LC3MSA00458-12 L-com Lead Free 1553 TRS Subminiature Plug to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 1 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

#### 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

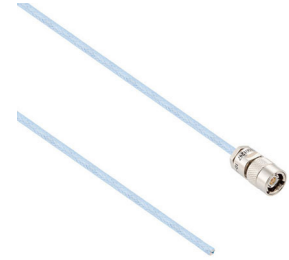
#### Cable Assembly

Length*	12 in [304.8 mm]
Weight	0.043 lbs [19.5 g]

#### Cable

Cable Type	M17/176-00002
Impedance	78 Ohms

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## LC3MSA00458-12

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	TRS Subminiature Plug	Blunt Cut Genderless
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 -55 to +200 deg C

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

### Plotted and Other Data

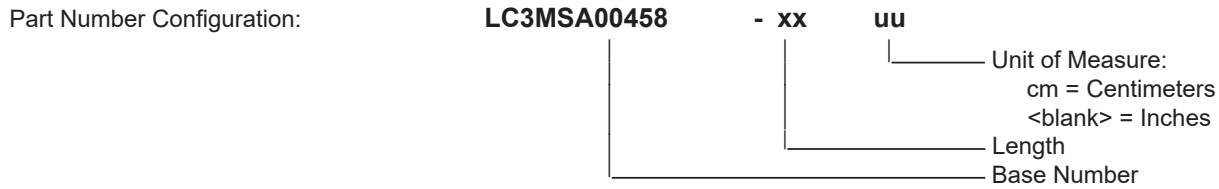
Notes:

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**LC3MSA00458-12**

**How to Order**



Example: LC3MSA00458-12 = 12 inches long cable  
 LC3MSA00458-100cm = 100 cm long cable

Lead Free 1553 TRS Subminiature Plug to Blunt Cut Genderless Cable Assembly using M17/176-00002 Coax, 1 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.

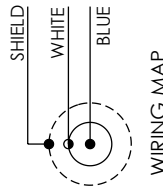
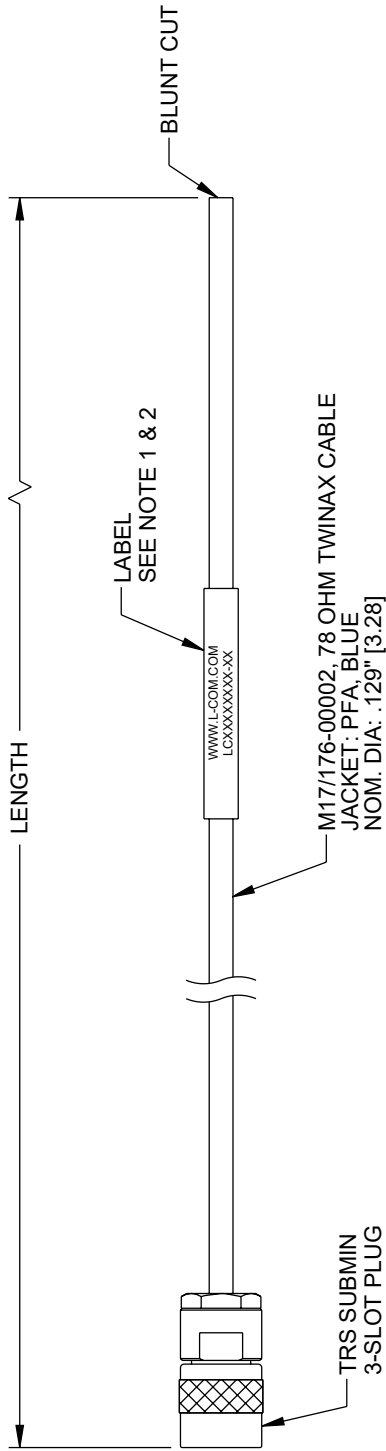
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L-com CAD Drawing

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

LEAD FREE SOLDER



NOTES:

- 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.
- CABLE ASSEMBLY LENGTH DETERMINED BY ILLUSTRATED: LC3MSA00458-XX (-XX = OAL IN INCHES)
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	ANGLES ± 1°
.XXX = ±.005 [0.13]	CABLE LENGTH TOLERANCES:
	<12 [305] = ±1.0% / -0
	>12 [305] ≤ 60 [1524] = +2.0% / -0
	>60 [1524] ≤ 120 [3048] = +4.0% / -0
	>120 [3048] ≤ 300 [7620] = +6.0% / -0
	>300 [7620] = +5% / -0
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5  
SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION  
Lead Free TRS Subminiature Plug with Blunt Cut for 78 Ohm M17/176-00002 Cable

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	KDANG	LC3MSA00458