

Lead Free 1553 TRS Subminiature Plug to TRS Subminiature Plug Cable Assembly using M17/176-00002 Coax, 3 FT

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LC3MSA00457-36

Configuration

Connector 1: TRS Subminiature Plug
 Connector 2: TRS Subminiature Plug

• Cable Type: M17/176-00002

Features

• MIL-STD-1553

-55°C to +200°C

78 ohms

MIL-STD-1553

Applications

· Vehicle High Temperature

Data

Description

L-com's LC3MSA00457-36 is a lead free 1553 TRS subminiature plug to TRS subminiature plug cable assembly using M17/176-00002 coax, 3 FT and ships same-day. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com TRS Subminiature to TRS Subminiature cable assembly has a plug to plug 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 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 LC3MSA00457-36 L-com Lead Free 1553 TRS Subminiature Plug to TRS Subminiature Plug Cable Assembly using M17/176-00002 Coax, 3 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
Operating voltage (AC)			750,000	Vr

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	5	7	10	MHz
Insertion Loss (Typ.)	0.242	0.263	0.284	0.305	0.335	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* 36 in [914.4 mm]
Weight 0.104 lbs [47.17 g]

Cable

Cable TypeM17/176-00002Impedance78 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, 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	
Туре	TRS Subminiature 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:



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How to Order



Example: LC3MSA00457-12 = 12 inches long cable LC3MSA00457-100cm = 100 cm long cable

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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.