

# **GLOBAL CONNECTIVITY SOLUTIONS**

### MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 5 FT

# LCCA30062-FT5

#### Configuration

- Connector 1: MCX Plug
- Connector 2: MCX Jack
- Cable Type: RG178

#### **Features**

- Max Frequency 3 GHz
- 70% VoP

#### **Applications**

· General Purpose

- FEP Jacket
- Heat Shrink Strain Relief
- · Laboratory Use



#### Description

L-com's LCCA30062-FT5 is a MCX plug to MCX jack cable assembly using RG178 coax, 5 FT and ships same-day. The RG178 coax of this MCX cable uses the PTFE dielectric with a VoP of 70%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com MCX to MCX cable assembly has a plug to jack gender configuration with flexible RG178 series coax and operates to 3 GHz. The shielding of this MCX cable is comprised of silver plated copper braid.

Custom versions of this MCX plug to MCX 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 LCCA30062-FT5 L-com MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 5 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.



### MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 5 FT



# LCCA30062-FT5

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.35:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			333	Vrms

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units	
Frequency	0.1	0.25	0.5	1	3	GHz	
Insertion Loss (Max.)	0.89	1.24	1.73	2.43	4.13	dB	

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.1 dB per connector.

### **Mechanical Specifications**

<b>Cable Assembly</b> Length Diameter	60 in [152.4 cm] 0.072 in [1.83 mm]
Cable Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Jacket Material Jacket Diameter	RG178 50 Ohms Stranded Copper, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

LCCA30062-FT5 REV 1.0 | © 2019 Infinite Electronics, Inc. L-com is a registered trademark of Infinite Electronics, Inc.



### MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 5 FT



# LCCA30062-FT5

### Connectors

Description	Connector 1	Connector 2
Туре	MCX Plug	MCX Jack
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold
Body Plating Specification	2.5 µin minimum	
Seal Gasket Material	Silicone Rubber	

#### **Environmental Specifications**

**Temperature** Operating Range

-55 to +200 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.



MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 5 FT

# LCCA30062-FT5

#### How to Order

Part Number Configuration: LCCA30062 - xx uu Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

 Example:
 LCCA30062-12 = 12 inches long cable LCCA30062-100cm = 100 cm long cable

MCX Plug to MCX Jack Cable Assembly using RG178 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 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications or warranty regarding the suitability of the part 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.



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. APPROVED THIRD-ANGLE PROJECTION SELLIS Ŵ ∢ R Ь A/A ~  $( \mathbf{\Phi} )$ MCX JACK 01/31/2020 DATE SHEET SCALE LCCA30062 50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 | 1.978.682.6936 Fax: 1.978.689.9484 REVISIONS PART NUMBEF E-mail: CustomerService@L-com.com an INFINIT® brand Website: www.L-com.com INITIAL RELEASE DESCRIPTION CAGE CODE DRAWN BY 43321 MVEERAPPAN 2x HEAT SHRINK TUBE, BLACK REV. ∢ A L = 12 [305] = +1 [25] / -0 12 [305] + L = 200 [304] = -2 [51] / -0 60 [1224] + L = 120 [3043] = -44 [102] / -0 120 [3048] < L = 300 [7620] = 46 [152] / -0 300 [7620] = 16 [152] / -0 ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. ± 1/32 ANGLES ± 1° UNLESS OT HERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS [5.08] | FRACTIONS CABLE LENGTH (L) TOLERANCES -FROM CONTACT TO CONTACT WWW.L-COM.COM  $X = \pm .2$  [5.08]  $XX = \pm .02$  [.51]  $XXX = \pm .005$  [.13] LENGTH MEASURED (SEE NOTE 1) L-COM P/N -LABEL RG178 COAX CABLE THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END, 1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. 6.0" FROM THE FRONT OF THE CONNECTOR. MCX PLUG NOTES: Zev.D

#### L-com CAD Drawing