



### LCCA30061-FT4

### Configuration

Connector 1: MCX PlugConnector 2: MCX PlugCable Type: RG178

### **Features**

- · Max Frequency 3 GHz
- 70% VoP

### **Applications**

General Purpose

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



### **Description**

L-com's LCCA30061-FT4 is a MCX plug to MCX plug cable assembly using RG178 coax, 4 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 plug 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 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 LCCA30061-FT4 L-com MCX Plug to MCX Plug Cable Assembly using RG178 Coax, 4 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





### LCCA30061-FT4

### **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)			335	Vrms

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.76	1.04	1.43	1.98	3.34	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**

### **Cable Assembly**

Length 48 in [121.92 cm]
Diameter 0.072 in [1.83 mm]

#### Cable

Cable TypeRG178Impedance50 OhmsInner Conductor TypeStrandedInner Conductor Material and PlatingCopper, SilverDielectric TypePTFENumber of Shields1

Shield Layer 1 Silver Plated Copper Braid Jacket Material FEP, Tan

Jacket Diameter 0.072 in [1.83 mm]

Repeated Minimum Bend Radius 0.4 in [10.16 mm]





# LCCA30061-FT4

### **Connectors**

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

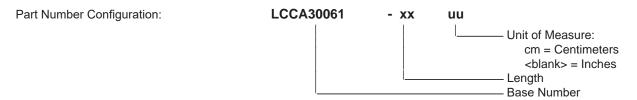
• Values at 25°C, sea level.





### LCCA30061-FT4

### **How to Order**



Example: LCCA30061-12 = 12 inches long cable

LCCA30061-100cm = 100 cm long cable

MCX Plug to MCX Plug Cable Assembly using RG178 Coax, 4 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.

# **L-com CAD Drawing**

