

MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 4 FT



**LCCA30062-FT4**

**Configuration**

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

**Features**

- Max Frequency 3 GHz
- 70% VoP
- FEP Jacket
- Heat Shrink Strain Relief

**Applications**

- General Purpose
- Laboratory Use



**Description**

L-com's LCCA30062-FT4 is a MCX plug to MCX jack 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 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-FT4 L-com MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 4 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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## LCCA30062-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)  |         |              | 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.) | 0.76 | 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 Type                           | RG178                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 1                          |
| 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] |
|------------------------------|-------------------|

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## LCCA30062-FT4

### Connectors

| Description                   | Connector 1     | Connector 2            |
|-------------------------------|-----------------|------------------------|
| Type                          | 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.

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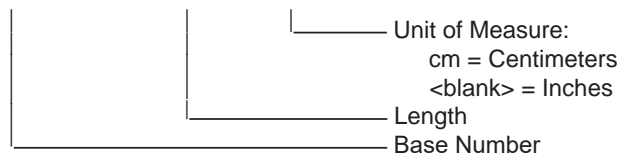


## LCCA30062-FT4

### How to Order

Part Number Configuration:

**LCCA30062 - xx uu**



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

MCX Plug to MCX Jack 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 implement 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 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 implement 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.

# MCX Plug to MCX Jack Cable Assembly using RG178 Coax, 4 FT

## L-com CAD Drawing

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 01/31/2020 | SELLIS   |

LENGTH MEASURED FROM CONTACT TO CONTACT

2x HEAT SHRINK TUBE, BLACK

RG178 COAX CABLE

MCX PLUG

MCX JACK

WWW.L-COM.COM  
L-COM P/N

(SEE NOTE 1)

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A



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|  |   |  |                    |
|--|---|--|--------------------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS | TOLERANCES:                             | FRACTIONS                                    | PART NUMBER        |
| .X = ±.2 [ .51 ]   | .XX = ±.02 [ .13 ]                      | .XXX = ±.005 [ .13 ]                         | A 43321 MVEERAPPAN |
| L ≤ 12 [305] = ±1 [25] / -0  | 12 [305] < L ≤ 60 [1524] = ±2 [61] / -0 | 60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0   | LCCA30062          |
| 120 [3048] < L ≤ 300 [7620] = ±6 [152] / -0  | 300 [7620] < L = ±5% L / -0             | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. |                    |

**NOTES:**

- CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.  
 CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END,  
 6.0" FROM THE FRONT OF THE CONNECTOR.

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