



LCCA30063-FT4

Configuration

· Connector 1: MCX Plug

Connector 2: MCX Jack Bulkhead

• 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 LCCA30063-FT4 is a MCX plug to MCX jack bulkhead 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. L-com's RF cable assembly with MCX bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications.

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 LCCA30063-FT4 L-com MCX Plug to MCX Jack Bulkhead Cable Assembly using RG178 Coax, 4 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.





LCCA30063-FT4

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.41:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 250 | 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]





LCCA30063-FT4

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|-----------------|------------------------------------|
| Туре | MCX Plug | MCX Jack Bulkhead |
| Specification | | MIL-C-39012 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold over Nickel |
| 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 | 100 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:

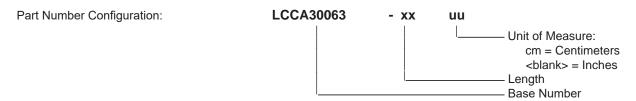
• Values at 25°C, sea level.





LCCA30063-FT4

How to Order



Example: LCCA30063-12 = 12 inches long cable

LCCA30063-100cm = 100 cm long cable

MCX Plug to MCX Jack Bulkhead 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

