

## MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable in 24 Inches

### LCCA9847-24



#### Configuration

- Connector 1: MCX Plug
- Connector 2: SMP Plug Right Angle
- Cable Type: RG316

#### Features

- VSWR of 1.4:1

#### Applications

- Military
- Aerospace
- Wireless Communications
- General Purpose Test

#### Description

L-com's LCCA9847-24 is a MCX plug right angle to SMP plug right angle using RG316 coax cable in 24 inches and ships same-day. Our L-com MCX to SMP cable assembly has a plug to plug gender configuration with RG316 series coax and operates to 3 GHz. This right angle SMP cable interface on the RG316 allows for easier connections in tight spaces.

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 LCCA9847-24 L-com MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable in 24 Inches 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      |              | 3       | GHz          |
| VSWR                    |         |              | 1.4:1   |              |
| Velocity of Propagation |         | 69           |         | %            |
| Capacitance             |         | 29.4 [96.46] |         | pF/ft [pF/m] |

#### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5   | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency             | 0.1  | 0.25 | 0.5  | 1    | 3    | GHz   |
| Insertion Loss (Typ.) | 0.52 | 0.62 | 0.78 | 1.06 | 1.46 | dB    |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector

MCX Plug Right Angle to SMP Plug Right Angle  
using RG316 Coax Cable in 24 Inches

## LCCA9847-24



### Mechanical Specifications

#### Cable Assembly

|         |                     |
|---------|---------------------|
| Length* | 24 in [609.6 mm]    |
| Weight  | 0.075 lbs [34.02 g] |

#### Cable

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG316                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PTFE                      |

### Connectors

| Description                  | Connector 1                   | Connector 2                        |
|------------------------------|-------------------------------|------------------------------------|
| Type                         | MCX Plug                      | SMP Plug Right Angle               |
| Impedance                    | 50 Ohms                       | 50 Ohms                            |
| Contact Material and Plating | Bronze, Gold over Copper      | Beryllium Copper, Gold over Copper |
| Body Material and Plating    | Bronze, Copper-Tin-Zinc Alloy | Bronze, Copper-Tin-Zinc Alloy      |

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

MCX Plug Right Angle to SMP Plug Right Angle  
using RG316 Coax Cable in 24 Inches

## LCCA9847-24



### How to Order

Part Number Configuration:

**LCCA9847**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: LCCA9847-12 = 12 inches long cable  
LCCA9847-100cm = 100 cm long cable

MCX Plug Right Angle to SMP Plug Right Angle using RG316 Coax Cable in 24 Inches 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.

## L-com CAD Drawing



1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

| ZONE | REV | DESCRIPTION | DATE      | CHANGED BY | APPROVED |
|------|-----|-------------|-----------|------------|----------|
|      | B   | ECO-13092   | 9/21/2023 | DMAY       | AGANWANI |

|                                                                                                                                                                                    |                    |                                                                                                                                    |          |                                                           |   |                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS ARE IN INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS                                                                                    |                    | L-com®<br>an INFINIT® brand<br>Website: <a href="http://www.L-com.com">www.L-com.com</a><br>Phone: 1.800.341.5266   1.978.682.6936 |          | INTERPRET ALL DIMENSIONS AND<br>TOLERANCES PER ASME Y14.5 |   |   |
| TOLERANCES:                                                                                                                                                                        |                    |                                                                                                                                    |          | SCALE                                                     |   | SHEET                                                                                                                                                                   |
| X ± .2 [5]<br>XX ± .02 [0.5]<br>XXX ± .005 [0.13]                                                                                                                                  |                    | FRACTIONS<br>± 1/32<br>ANGLES ± 1°                                                                                                 |          | NONE                                                      |   | 1 OF 1                                                                                                                                                                  |
| CABLE LENGTH TOLERANCES:                                                                                                                                                           |                    |                                                                                                                                    |          |                                                           |   |                                                                                                                                                                         |
| 517 [9048] = +1 [25] / -0<br>>12 [305] ≤ 60 [1524] = +2 [51] / -0<br>>60 [1524] ≤ 120 [3048] = +4 [102] / -0<br>>120 [3048] ≤ 300 [7620] = +6 [152] / -0<br>>300 [7620] = +5% / -0 |                    |                                                                                                                                    |          |                                                           |   |                                                                                                                                                                         |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY<br>AND SUBJECT TO CHANGE WITHOUT NOTICE<br>UN-IDENTIFYING MARKS AND LOCATIONS<br>MAY VARY IN SIZE AND LOCATION<br>COLORS MAY VARY            |                    |                                                                                                                                    |          |                                                           |   |                                                                                                                                                                         |
| DESCRIPTION<br>MCX PLUG TO SMP PLUG RIGHT ANGLE NON-MAGNETIC<br>CABLE USING RG316 COAX                                                                                             |                    | ITEM NO.                                                                                                                           |          | REV                                                       |   |                                                                                                                                                                         |
| SIZE<br>A                                                                                                                                                                          | CAGE CODE<br>43321 | DRAWN BY<br>AKRESOWSKI                                                                                                             | LCCA9847 |                                                           | B |                                                                                                                                                                         |