

Outdoor Rated 7/16 DIN Male to N Female Cable Using SPO-375 Coax Low PIM Using Times Microwave Parts 2 Feet



## LCCA31022-FT2

### Configuration

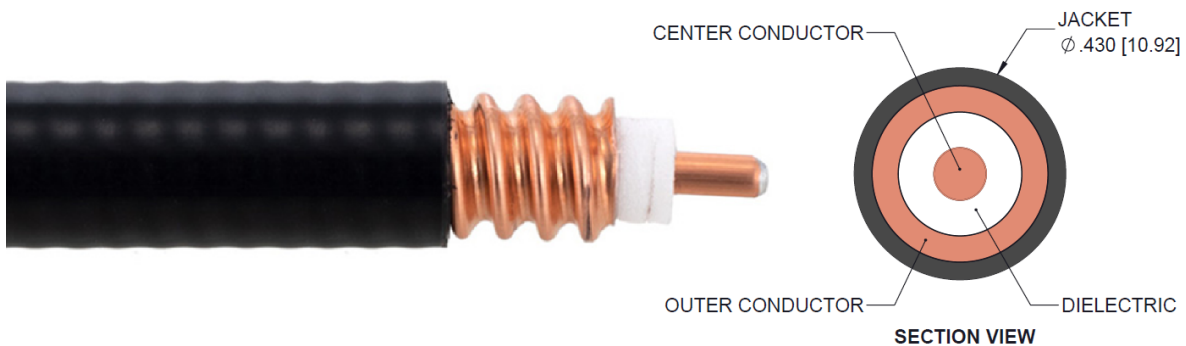
- Connector 1: 7/16 DIN Male
- Connector 2: N Female
- Cable Type: SPO-375-LC

### Features

- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

### Applications

- Outdoor Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing



### Description

L-com's LCCA31022-FT2 is an outdoor rated 7/16 DIN male to N female cable using SPO-375 coax low PIM using Times Microwave parts 2 feet and ships same-day. The SPO-375-LC coax of this 7/16 DIN cable uses the foam PE dielectric with a VoP of 83%. These corrugated RF cable assemblies are extremely durable and ideal for high power applications. Our L-com 7/16 DIN to N cable assembly has a male to female gender configuration with corrugated SPO-375-LC series coax and operates to 6 GHz. The jacketed copper shield provides reliable durability. With passive intermodulation levels better than -160 dBc, our cable assembly design is ideal where low PIM is desired. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

Custom versions of this 7/16 DIN male to 7/16 DIN female 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 LCCA31022-FT2 L-com Outdoor Rated 7/16 DIN Male to N Female Cable Using SPO-375 Coax Low PIM Using Times Microwave Parts 2 Feet data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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### Electrical Specifications

| Description             | Minimum | Typical    | Maximum | Units        |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range         | DC      |            | 6       | GHz          |
| VSWR                    |         |            | 1.4:1   |              |
| Velocity of Propagation |         | 83         |         | %            |
| Passive Intermodulation |         |            | -160    | dBc          |
| Capacitance             |         | 24 [78.74] |         | pF/ft [pF/m] |

### Specifications by Frequency

| Description           | F1   | F2   | F3  | F4   | F5   | Units |
|-----------------------|------|------|-----|------|------|-------|
| Frequency             | 0.5  | 1    | 2.5 | 4    | 6    | GHz   |
| Insertion Loss (Max.) | 0.23 | 0.29 | 0.4 | 0.48 | 0.58 | dB    |

#### Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of  $0.1 \cdot \sqrt{FGHz}$  dB for the male connector and 0.1 dB for the female connector.

### Mechanical Specifications

#### Cable Assembly

|         |                      |
|---------|----------------------|
| Length* | 24 in [609.6 mm]     |
| Weight  | 0.288 lbs [130.63 g] |

#### Cable

|                                      |                      |
|--------------------------------------|----------------------|
| Cable Type                           | SPO-375-LC           |
| Impedance                            | 50 Ohms              |
| Inner Conductor Type                 | Solid                |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type                      | Foam PE              |
| Number of Shields                    | 1                    |
| Outer Conductor Material and Plating | Copper               |
| Jacket Material                      | PE, Black            |
| Jacket Diameter                      | 0.43 in [10.92 mm]   |
| One Time Minimum Bend Radius         | 1.75 in [44.45 mm]   |

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### Connectors

| Description                           | Connector 1        | Connector 2      |
|---------------------------------------|--------------------|------------------|
| Type                                  | 7/16 DIN Male      | N Female         |
| Impedance                             | 50 Ohms            | 50 Ohms          |
| Contact Material and Plating          | Brass, Silver      | Brass, Silver    |
| Contact Plating Specification         | 200 µin            | 196 µin          |
| Dielectric Type                       | PTFE               | PTFE             |
| Outer Conductor Material and Plating  |                    | Brass, Tri-Metal |
| Outer Conductor Plating Specification |                    | 118 µin          |
| Body Material and Plating             | Brass, Tri-Metal   |                  |
| Body Plating Specification            | 100 µin            |                  |
| Coupling Nut Material and Plating     | Brass, Tri-Metal   | Brass, Tri-Metal |
| Coupling Nut Plating Specification    | 100 µin            | 118 µin          |
| Torque                                | 9.74 in-lbs 1.1 Nm | 6 in-lbs 0.68 Nm |

### Environmental Specifications

#### Temperature

Operating Range -40 to +85 deg C

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

### Plotted and Other Data

Notes:

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## LCCA31022-FT2

### How to Order

Part Number Configuration:

**LCCA31022 - xx uu**



Example: LCCA31022-12 = 12 inches long cable  
LCCA31022-100cm = 100 cm long cable

Outdoor Rated 7/16 DIN Male to N Female Cable Using SPO-375 Coax Low PIM Using Times Microwave Parts 2 Feet 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.

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L-com CAD Drawing

