

Outdoor Rated N Male to N Male Low PIM Cable Using SPO-500 Coax Using Times Microwave Parts 1 Meter



LCCA31024-M1

Configuration

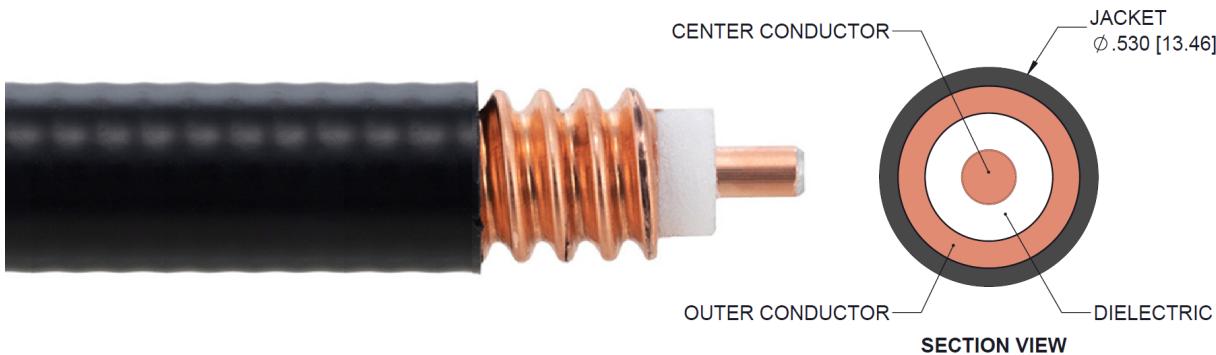
- Connector 1: N Male
- Connector 2: N Male
- Cable Type: SPO-500-LC

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

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



Description

L-com's LCCA31024-M1 is a outdoor rated N male to N male low PIM cable using SPO-500 coax using Times Microwave parts 1 meter and ships same-day. The SPO-500-LC coax of this N 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 N to N cable assembly has a male to male gender configuration with corrugated SPO-500-LC series coax and operates to 6 GHz. The jacketed copper shield provides reliable durability. With passive intermodulation levels better than -158 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 N male to N male 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 LCCA31024-M1 L-com Outdoor Rated N Male to N Male Low PIM Cable Using SPO-500 Coax Using Times Microwave Parts 1 Meter 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 | | | -158 | 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 | 6 | | GHz |
| Insertion Loss (Max.) | 0.23 | 0.32 | 0.46 | 0.81 | | 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 $0.1 * \text{SQRT}(F\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|---------|----------------------|
| Length* | 39.3701 in [100 cm] |
| Weight | 0.294 lbs [133.36 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | SPO-500-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 | 0.53 in [13.46 mm] |

| | |
|------------------------------|--------------------|
| One Time Minimum Bend Radius | 2.25 in [57.15 mm] |
|------------------------------|--------------------|

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|------------------|------------------|
| Type | N Male | N Male |
| Impedance | 50 Ohms | 50 Ohms |
| Mating Cycles | 500 | 500 |
| Contact Material and Plating | Brass, Silver | Brass, Silver |
| Contact Plating Specification | 200 μ in | 200 μ in |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 μ in | 80 μ in |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 μ in | 80 μ in |
| Torque | 6 in-lbs 0.68 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:

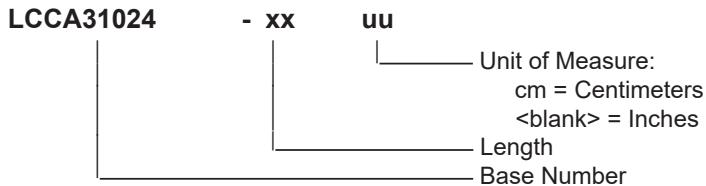
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How to Order

Part Number Configuration:



Example: LCCA31024-12 = 12 inches long cable
 LCCA31024-100cm = 100 cm long cable

Outdoor Rated N Male to N Male Low PIM Cable Using SPO-500 Coax Using Times Microwave Parts 1 Meter 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

