

Plenum 4.3-10 Male to N Female Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 2 Meter

LCCA31049-M2

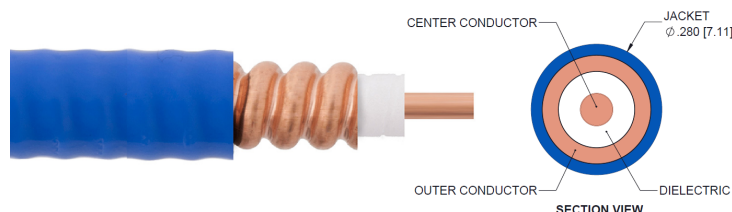


Configuration

- Connector 1: 4.3-10 Male TC-250-4310M-LP
- Connector 2: N Female TC-250-NF-LP
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

Features

- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated 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
- Plenum Installations
- PIM Testing

Description

L-com's LCCA31049-M2 is a plenum 4.3-10 male to N female low PIM cable using SPP-250-LLPL coax using Times Microwave parts 2 meter and ships same-day. The SPP-250-LLPL coax of this 4.3-10 cable uses the PTFE dielectric with a VoP of 76%. These corrugated RF cable assemblies are extremely durable and ideal for high power applications. Our L-com 4.3-10 to N cable assembly has a male to female gender configuration with corrugated SPP-250-LLPL series coax and operates to 5.8 GHz. The jacketed copper shield provides reliable durability and excellent shielding effectiveness greater than 100dB. 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 4.3-10 male to N 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 LCCA31049-M2 L-com Plenum 4.3-10 Male to N Female Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 2 Meter 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 | | 5.8 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 76 | | % |
| RF Shielding | 100 | | | dB |
| Passive Intermodulation | | -165 | -160 | dBc |
| IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz | | | | |

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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|--------------|---------|-----------------------|
| Capacitance | | 27 [88.58] | | pF/ft [pF/m] |
| Inductance | | 0.067 [0.22] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 3 [9.84] | | Ohms/1000ft [Ohms/Km] |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.45 | 0.7 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Max.) | 0.42 | 0.51 | 0.58 | 0.88 | 1.33 | 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*SQRT(FGHz) dB for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly

| | |
|----------------|---------------------|
| Length | 78.7402 in [200 cm] |
| Width/Diameter | 0.5 in [12.7 mm] |
| Weight | 0.68 lbs [308.44 g] |

Cable

| | |
|--|----------------------------------|
| Cable Type | SPP-250-LLPL |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Helically Corrugated Copper Tube |
| Outer Conductor 1 Material and Plating | Copper |
| Outer Conductor Diameter | 0.25 in [6.35 mm] |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.28 in [7.11 mm] |
| One Time Minimum Bend Radius | 1.25 in [31.75 mm] |
| Bending Moment | 0.8 lbs-ft [1.08 N-m] |

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Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------------|-------------------------|-------------------------|
| Type | 4.3-10 Male | N Female |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Straight | Straight |
| Contact Material and Plating | Phosphor Bronze, Silver | Phosphor Bronze, Silver |
| Contact Plating Specification | 200μ in | 196μ in |
| Dielectric Type | PTFE | PTFE |
| Outer Conductor Material and Plating | | Brass, Tri-Metal |
| Outer Conductor Plating Specification | | 118μ in |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80μ in | 118μ in |
| Coupling Nut Material and Plating | Brass, Tri-Metal | |
| Coupling Nut Plating Specification | 80μ in | |
| Torque | 44.25 in-lbs 5 Nm | 10 in-lbs 1.13 Nm |

Environmental Specifications

| | |
|-----------------------------|-------------------|
| Operating Range Temperature | -55 to +200 deg C |
| Storage Range Temperature | -55 to +200 deg C |
| Plenum Rating | UL910 |

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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Typical Performance Data

How to Order

Part Number Configuration: **LCCA31049** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: LCCA31049-12 = 12 inches long cable
LCCA31049-100cm = 100 cm long cable

Plenum 4.3-10 Male to N Female Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 2 Meter from L-com has same day shipment for domestic and International orders. 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.

URL: <https://www.l-com.com/4.3-10-male-n-female-cable-assembly-lcca31049-M2-p.aspx>

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.

LCCA31049-M2 CAD Drawing
Plenum 4.3-10 Male to N Female Low PIM Cable Using SPP-250-LLPL Coax Using Times Microwave Parts 2 Meter

