

Plenum Low PIM N Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts 4 Foot



LCCA31059-FT4

Configuration

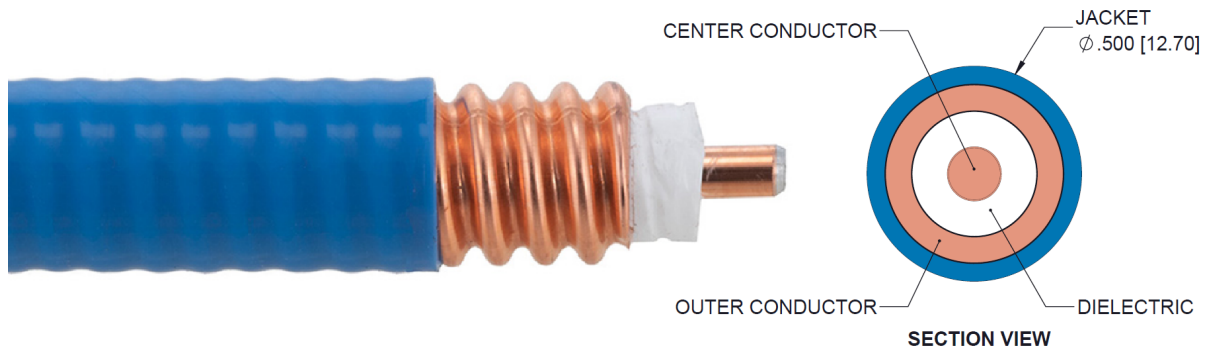
- Connector 1: N Male
- Connector 2: N Male
- Cable Type: SPP-500-LLPL

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)
- Plenum Installations
- Multi-Carrier Communication Systems
- PIM Testing



Description

L-com's LCCA31059-FT4 is a plenum low PIM N male to N male cable SPP-500-LLPL coax using Times Microwave parts 4 foot and ships same-day. 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 SPP-500-LLPL series coax and operates to 5.8 GHz. The jacketed copper shield provides reliable durability. 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 LCCA31059-FT4 L-com Plenum Low PIM N Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts 4 Foot data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------|---------|---------|---------|-------|
|-------------|---------|---------|---------|-------|

Plenum Low PIM N Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts 4 Foot



LCCA31059-FT4

| | | | |
|-------------------------|----|-------|-----|
| Frequency Range | DC | 5.8 | GHz |
| VSWR | | 1.4:1 | |
| Velocity of Propagation | 76 | | % |
| Passive Intermodulation | | -160 | dBc |

| | | | |
|-------------|--------------|--|--------------|
| Capacitance | 26.2 [85.96] | | pF/ft [pF/m] |
|-------------|--------------|--|--------------|

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|-----|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 5.8 | GHz |
| Insertion Loss (Typ.) | 0.19 | 0.3 | 0.42 | 0.69 | 1.08 | dB |

Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1xSQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

| | |
|----------|----------------------|
| Length | 48 in [121.92 cm] |
| Diameter | 0.5 in [12.7 mm] |
| Weight | 0.648 lbs [293.93 g] |

Cable

| | |
|--------------------------------------|----------------------|
| Cable Type | SPP-500-LLPL |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Outer Conductor Material and Plating | Copper |
| Jacket Material | FEP, Blue |
| Jacket Diameter | 0.5 in [12.7 mm] |

| | |
|------------------------------|------------------|
| One Time Minimum Bend Radius | 1.5 in [38.1 mm] |
|------------------------------|------------------|

Plenum Low PIM N Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts 4 Foot



LCCA31059-FT4

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 µin | 200 µin |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Specification | 80 µin | 80 µin |
| Coupling Nut Material and Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Specification | 80 µin | 80 µin |
| Torque | 6 in-lbs 0.68 Nm | 6 in-lbs 0.68 Nm |

Environmental Specifications

Temperature

Operating Range -40 to +125 deg C

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

Plotted and Other Data

Notes:

Plenum Low PIM N Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts 4 Foot



LCCA31059-FT4

How to Order

Part Number Configuration:

LCCA31059 - xx uu

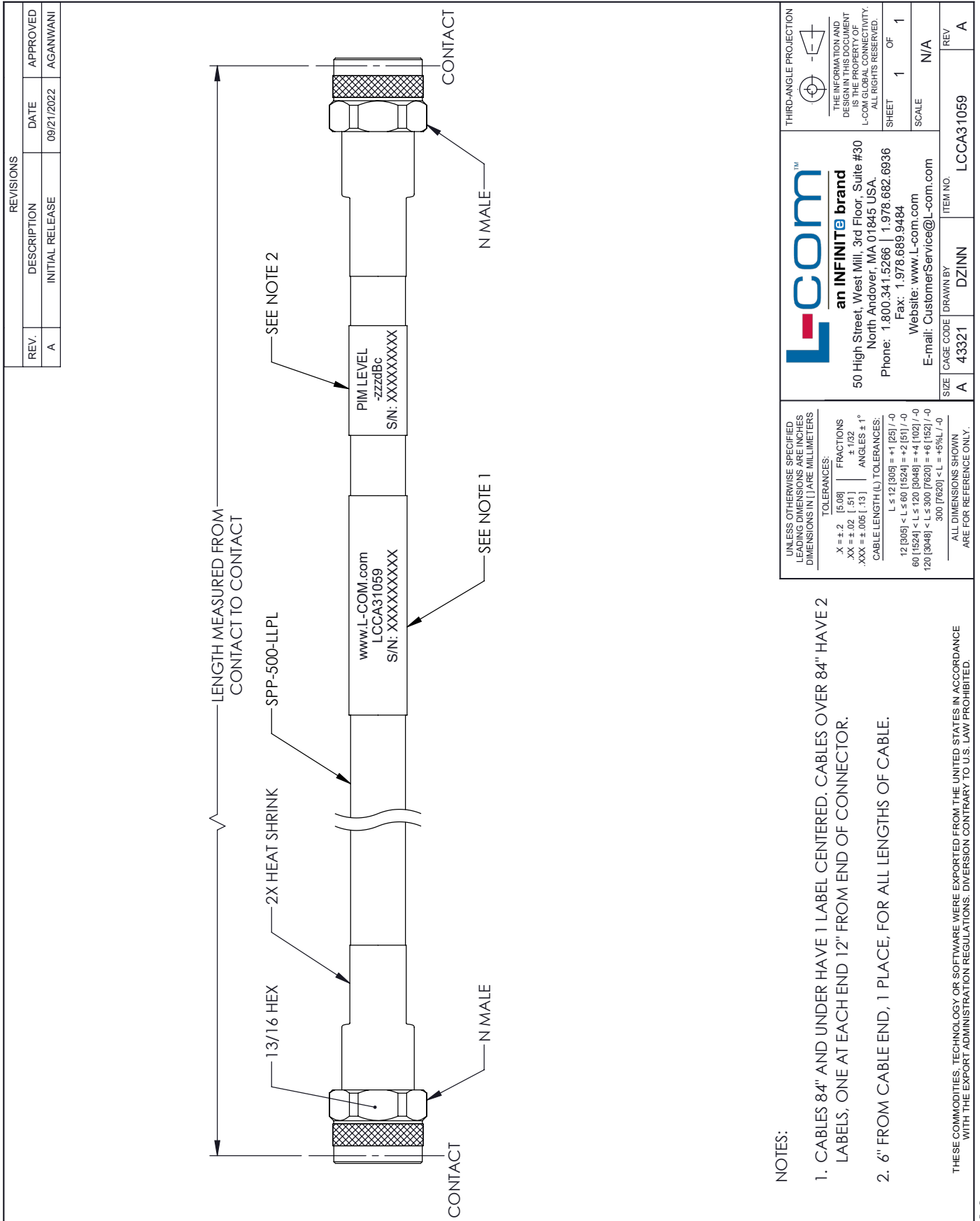


Example: LCCA31059-12 = 12 inches long cable
LCCA31059-100cm = 100 cm long cable

Plenum Low PIM N Male to N Male Cable SPP-500-LLPL Coax Using Times Microwave Parts 4 Foot 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



| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 09/21/2022 | AGANWANI |

| | |
|--|--|
| <p>L-comTM an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p> | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |
| | <p>SIZE A</p> <p>CAGE CODE 43321</p> <p>DRAWN BY DZINN</p> <p>ITEM NO. LCCA31059</p> <p>REV A</p> |

NOTES:

- CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM END OF CONNECTOR.
- 6" FROM CABLE END, 1 PLACE, FOR ALL LENGTHS OF CABLE.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

| | |
|--------------------|------------------|
| .X ± .2 [.508] | FRACTIONS ± 1/32 |
| .XX ± .02 [.51] | ANGLES ± 1° |
| .XXX ± .005 [.13] | |

CABLE LENGTH (L) TOLERANCES:

| | |
|-----------------------------|----------------|
| L ≤ 12 [305] | ± 1 [25] / -0 |
| 12 [305] < L ≤ 60 [1524] | ± 2 [51] / -0 |
| 60 [1524] < L ≤ 120 [3048] | ± 4 [102] / -0 |
| 120 [3048] < L ≤ 300 [7620] | ± 6 [152] / -0 |
| 300 [7620] < L ≤ ∞ | ± 9% L / -0 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.