

SMA Male to N Female Bulkhead Cable Assembly using RG223 Coax, 10 FT

**LCCA30359-FT10**



**Configuration**

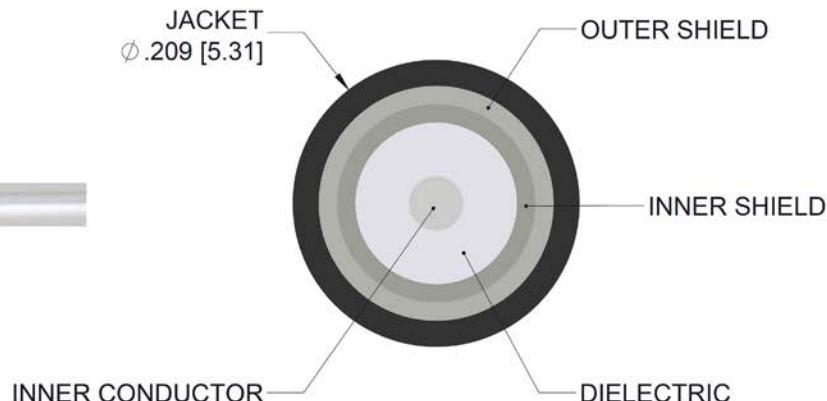
- Connector 1: SMA Male
- Connector 2: N Female Bulkhead
- Cable Type: RG223

**Features**

- Max Frequency 6 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

**Applications**

- General Purpose
- Laboratory Use



**Description**

L-com's LCCA30359-FT10 is a SMA male to N female bulkhead cable assembly using RG223 coax, 10 FT and ships same-day. The RG223 coax of this SMA cable uses the PE dielectric with a VoP of 66%. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com SMA to N cable assembly has a male to female gender configuration with flexible RG223 series coax and operates to 6 GHz. The double shield of this SMA cable is layered by silver plated copper braid over silver plated copper braid. L-com's RF cable assembly with N bulkhead interface enables system designers to have external connections on their product enclosures or to be used for other rack mount and panel mount applications.

Custom versions of this SMA male to SMA 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 LCCA30359-FT10 L-com SMA Male to N Female Bulkhead Cable Assembly using RG223 Coax, 10 FT data sheet PDF includes details of the RF product specifications, CAD drawing(s) and dimensions below.

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## LCCA30359-FT10



### Electrical Specifications

| Description             | Minimum | Typical       | Maximum | Units        |
|-------------------------|---------|---------------|---------|--------------|
| Frequency Range         | DC      |               | 6       | GHz          |
| VSWR                    |         |               | 1.5:1   | %            |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |               | 500     | Vrms         |

### Specifications by Frequency

| Description           | F1   | F2  | F3  | F4  | F5  | Units |
|-----------------------|------|-----|-----|-----|-----|-------|
| Frequency             | 0.25 | 0.5 | 1   | 2.5 | 6   | GHz   |
| Insertion Loss (Typ.) | 1.2  | 1.6 | 2.2 | 3.6 | 5.7 | dB    |

#### Electrical Specification Notes:

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

### Mechanical Specifications

#### Cable Assembly

|          |                     |
|----------|---------------------|
| Length   | 120 in [304.8 cm]   |
| Diameter | 0.827 in [21.01 mm] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG223                      |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Solid                      |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PE                         |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | PVC, Black                 |
| Jacket Diameter                      | 0.209 in [5.31 mm]         |
| One Time Minimum Bend Radius         | 0.984 in [24.99 mm]        |
| Repeated Minimum Bend Radius         | 1 in [25.4 mm]             |

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## Connectors

| Description                           | Connector 1          | Connector 2          |
|---------------------------------------|----------------------|----------------------|
| Type                                  | SMA Male             | N Female Bulkhead    |
| Specification                         | MIL-STD-348A         | MIL-STD-348A         |
| Impedance                             | 50 Ohms              | 50 Ohms              |
| Contact Material and Plating          | Brass, Gold          | Brass, Gold          |
| Contact Plating Specification         | 50 $\mu$ in minimum  | 30 $\mu$ in minimum  |
| Dielectric Type                       | PTFE                 | PTFE                 |
| Outer Conductor Material and Plating  |                      | Brass, Nickel        |
| Outer Conductor Plating Specification |                      | 100 $\mu$ in minimum |
| Body Material and Plating             | Brass, Nickel        | Brass, Nickel        |
| Body Plating Specification            | 100 $\mu$ in minimum | 100 $\mu$ in minimum |
| Coupling Nut Material and Plating     | Brass, Nickel        |                      |
| Coupling Nut Plating Specification    | 100 $\mu$ in minimum |                      |
| Hex Size                              | 5/16 inch            |                      |
| Torque                                | 3 in-lbs 0.34 Nm     |                      |

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

## Plotted and Other Data

Notes:

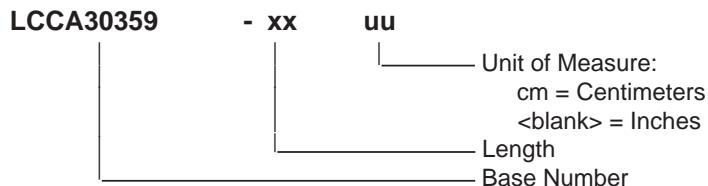
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**How to Order**

Part Number Configuration:



Example: LCCA30359-12 = 12 inches long cable  
LCCA30359-100cm = 100 cm long cable

SMA Male to N Female Bulkhead Cable Assembly using RG223 Coax, 10 FT 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.

# SMA Male to N Female Bulkhead Cable Assembly using RG223 Coax, 10 FT

## L-com CAD Drawing

