

Low Loss N Male Right Angle to N Male Right Angle Cable Assembly using LMR-195-FR Coax, 10 FT with Times Microwave Components



## LCCA30160-FT10

### Configuration

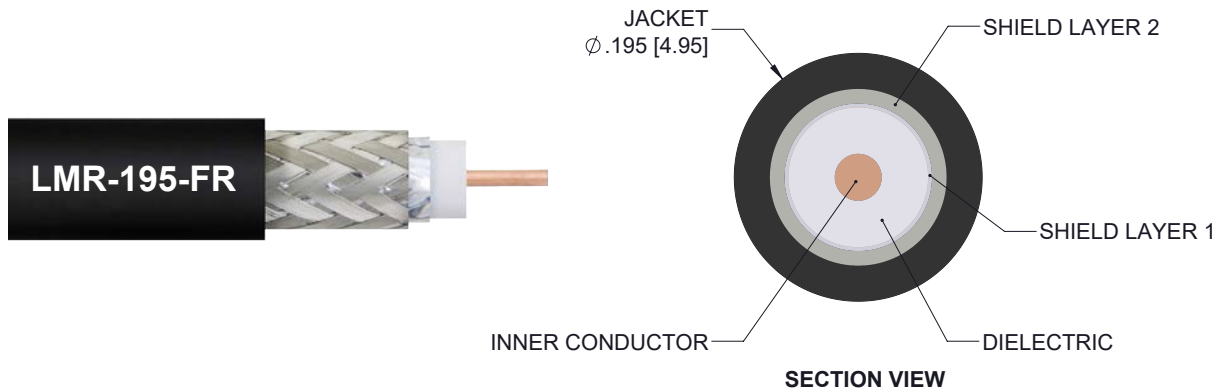
- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: LMR-195-FR

### Features

- Using Times Microwave Components
- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- FRPE Jacket
- Low Insertion Loss
- Bend Radius of 2 Inches

### Applications

- General Purpose
- Laboratory Use
- Antenna Installations
- Land Mobile Radio & Other Communication Systems
- Cellular & Wi-Fi Systems



### Description

L-com's LCCA30160-FT10 is a low loss N male right angle to N male right angle cable assembly using LMR-195-FR coax, 10 FT with Times Microwave components and ships same-day. The LMR-195-FR coax of this N cable uses the PE dielectric with a VoP of 76%, resulting in very low insertion loss compared to solid dielectrics. These flexible RF cable assemblies are ideal for applications where flexure is required. Our L-com N to N cable assembly has a male to male gender configuration with flexible LMR-195-FR series coax and operates to 5.8 GHz. The double shield of this N cable is layered by tinned copper braid over aluminum tape providing shielding effectiveness greater than 90dB. This right angle N cable interface on the LMR-195-FR coax allows for easier connections in tight spaces. \*LMR<sup>TM</sup> is a trademark of Times Microwave Systems.

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 LCCA30160-FT10 L-com Low Loss N Male Right Angle to N Male Right Angle Cable Assembly using LMR-195-FR Coax, 10 FT with Times Microwave Components 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      |              | 5.8     | GHz                   |
| VSWR                          |         |              | 1.4:1   |                       |
| Velocity of Propagation       |         | 76           |         | %                     |
| RF Shielding                  | 90      |              |         | dB                    |
| Group Delay                   |         | 1.27 [4.17]  |         | ns/ft [ns/m]          |
| Capacitance                   |         | 25.4 [83.33] |         | pF/ft [pF/m]          |
| Inductance                    |         | 0.064 [0.21] |         | uH/ft [uH/m]          |
| DC Resistance Inner Conductor |         | 7.6 [24.93]  |         | Ohms/1000ft [Ohms/Km] |
| DC Resistance Outer Conductor |         | 4.9 [16.08]  |         | Ohms/1000ft [Ohms/Km] |
| Jacket Spark                  |         |              | 3,000   | Vrms                  |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4  | F5   | Units |
|-----------------------|------|------|------|-----|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5 | 5.8  | GHz   |
| Insertion Loss (Typ.) | 0.97 | 1.22 | 1.57 | 2.3 | 3.39 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length   | 120 in [304.8 cm]  |
| Diameter | 0.8 in [20.32 mm]  |
| Weight   | 0.21 lbs [95.25 g] |

#### Cable

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | LMR-195-FR          |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Solid               |
| Inner Conductor Material and Plating | Copper              |
| Dielectric Type                      | PE                  |
| Number of Shields                    | 2                   |
| Shield Layer 1                       | Aluminum Tape       |
| Shield Layer 2                       | Tinned Copper Braid |

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|                              |                        |
|------------------------------|------------------------|
| Jacket Material              | FRPE, Black            |
| Jacket Diameter              | 0.195 in [4.95 mm]     |
| One Time Minimum Bend Radius | 0.5 in [12.7 mm]       |
| Repeated Minimum Bend Radius | 2 in [50.8 mm]         |
| Bending Moment               | 0.2 lbs-ft [0.27 N-m]  |
| Flat Plate Crush             | 15 lbs/in [0.27 Kg/mm] |
| Tensile Strength             | 40 lbs [18.14 Kg]      |

### Connectors

| Description                        | Connector 1        | Connector 2        |
|------------------------------------|--------------------|--------------------|
| Type                               | N Male Right Angle | N Male Right Angle |
| Impedance                          | 50 Ohms            | 50 Ohms            |
| Mating Cycles                      | 500                | 500                |
| Contact Material and Plating       | Brass, Gold        | Brass, Gold        |
| Contact Plating Specification      | 50µ in. minimum    | 50µ in. minimum    |
| Dielectric Type                    | Teflon             | Teflon             |
| Body Material and Plating          | Brass, Tri-Metal   | Brass, Tri-Metal   |
| Body Plating Specification         | 80µ in. minimum    | 80µ in. minimum    |
| Coupling Nut Material and Plating  | Brass, Tri-Metal   | Brass, Tri-Metal   |
| Coupling Nut Plating Specification | 80µ in. minimum    | 80µ in. minimum    |

### Environmental Specifications

#### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -40 to +85 deg C |
| Storage Range   | -70 to +85 deg C |

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

### Plotted and Other Data

Notes:

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## LCCA30160-FT10

### How to Order

Part Number Configuration:

**LCCA30160 - xx uu**



Example: LCCA30160-12 = 12 inches long cable  
LCCA30160-100cm = 100 cm long cable

Low Loss N Male Right Angle to N Male Right Angle Cable Assembly using LMR-195-FR Coax, 10 FT with Times Microwave Components 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

