

## RA N Male to RA N Male Cable LMR-400 Coax in 36 Inch with Times Microwave components

The RA type N male to RA type N male 36 inch cable using LMR-400 coax, part number FMCA1067-36, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1067-36 type N male to type N male cable assembly operates to 6 GHz. The right angle type N interfaces on the LMR-400 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

| Description                   | Min | Typ          | Max   | Units                            |
|-------------------------------|-----|--------------|-------|----------------------------------|
| Frequency Range               | DC  |              | 6     | GHz                              |
| VSWR                          |     |              | 1.4:1 |                                  |
| Velocity of Propagation       |     | 85           |       | %                                |
| RF Shielding                  | 90  |              |       | dB                               |
| Group Delay                   |     | 1.2 [3.94]   |       | ns/ft [ns/m]                     |
| Capacitance                   |     | 23.9 [78.41] |       | pF/ft [pF/m]                     |
| Inductance                    |     | 0.06 [0.2]   |       | uH/ft [uH/m]                     |
| DC Resistance Inner Conductor |     | 1.39 [4.56]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 1.65 [5.41]  |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| Jacket Spark                  |     |              | 8,000 | Vrms                             |

### Performance by Frequency

| Description           | F1   | F2   | F3   | F4  | F5   | Units |
|-----------------------|------|------|------|-----|------|-------|
| Frequency             | 0.25 | 0.5  | 1    | 2.5 | 6    | GHz   |
| Insertion Loss (Typ.) | 0.46 | 0.48 | 0.52 | 0.6 | 0.73 | 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\* 36 in [914.4 mm]  
 Diameter 0.81 in [20.57 mm]

#### Cable

Cable Type LMR-400



### Configuration:

- N Male Right Angle
- N Male Right Angle
- LMR-400

### Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

### Applications:

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

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|                                      |                      |
|--------------------------------------|----------------------|
| Impedance                            | 50 Ohms              |
| Inner Conductor Type                 | Solid                |
| Inner Conductor Material and Plating | Copper Clad Aluminum |
| Dielectric Type                      | PE (F)               |
| Number of Shields                    | 2                    |
| Shield Layer 1                       | Aluminum Tape        |
| Shield Layer 2                       | Tinned Copper Braid  |
| Jacket Material                      | PE, Black            |
| Jacket Diameter                      | 0.405 in [10.29 mm]  |

|                              |                        |
|------------------------------|------------------------|
| One Time Minimum Bend Radius | 1 in [25.4 mm]         |
| Repeated Minimum Bend Radius | 4 in [101.6 mm]        |
| Bending Moment               | 0.5 lbs-ft [0.68 N-m]  |
| Flat Plate Crush             | 40 lbs/in [0.71 Kg/mm] |
| Tensile Strength             | 160 lbs [72.57 Kg]     |

### Connectors

| Description                     | Connector 1            | Connector 2            |
|---------------------------------|------------------------|------------------------|
| Type                            | N Male                 | N Male                 |
| Impedance                       | 50 Ohms                | 50 Ohms                |
| Contact Material & Plating      | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Contact Plating Spec.           | 1.27 µm minimum        | 1.27 µm minimum        |
| Dielectric Type                 | PTFE                   | PTFE                   |
| Body Material & Plating         | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Body Plating Spec.              | 2 µm minimum           | 2 µm minimum           |
| Coupling Nut Material & Plating | Brass, Tri-Metal       | Brass, Tri-Metal       |
| Coupling Nut Plating Spec.      | 2 µm minimum           | 2 µm minimum           |
| Torque                          | 44 in-lbs 4.97 Nm      | 44 in-lbs 4.97 Nm      |

### Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### 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)

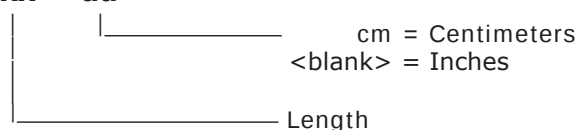
### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMCA1067 - xx uu**



Example: FMCA1067-12 = 12 inches long cable  
 FMCA1067-100cm = 100 cm long cable

RA N Male to RA N Male Cable LMR-400 Coax in 36 Inch with Times Microwave components from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA N Male to RA N Male Cable LMR-400 Coax in 36 Inch with Times Microwave components FMCA1067-36](https://www.fairviewmicrowave.com/ra-n-male-ra-n-male-cable-lmr400-coax-fmca1067-36-p.aspx)

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