

## Low Loss N Male to RA N Male Cable LL142 Coax with LF Solder

The type N male to RA type N male cable using LL142 coax, part number FMC00871/0001, 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 LL142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00871/0001 type N male to type N male cable assembly operates to 18 GHz. The right angle type N interface on the LL142 cable allows for easier connections in tight spaces. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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  |            | 18    | GHz          |
| VSWR                    |     |            | 1.4:1 |              |
| Velocity of Propagation |     | 80         |       | %            |
| Capacitance             |     | 25 [82.02] |       | pF/ft [pF/m] |

### Performance by Frequency

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 1     | 2     | 4.5   | 9     | 18    | GHz   |
| Insertion Loss (Typ.) | 0.075 | 0.107 | 0.162 | 0.233 | 0.342 | dB/ft |
|                       | 0.25  | 0.35  | 0.53  | 0.76  | 1.12  | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 X SQRT(fGHz) dB for the right angle and 0.04 X SQRT(fGHz) dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.199 lbs [90.26 g]

#### Cable

Cable Type LL142  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 Dielectric Type PTFE  
 Number of Shields 3  
 Shield Layer 1 Silver Plated Copper Tape  
 Shield Layer 2 Aluminum Polyester  
 Shield Layer 3 Silver Plated Copper Wire



### Configuration:

- N Male
- N Male Right Angle
- LL142

### Features:

- Max Frequency 18 GHz
- 80% Phase Velocity
- Triple Shielded
- FEP Jacket
- 500 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

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Jacket Material FEP, Green  
 Jacket Diameter 0.195 in [4.95 mm]  
 Repeated Minimum Bend Radius 0.975 in [24.77 mm]

### Connectors

| Description                     | Connector 1                        | Connector 2                        |
|---------------------------------|------------------------------------|------------------------------------|
| Type                            | N Male                             | N Male                             |
| Impedance                       | 50 Ohms                            | 50 Ohms                            |
| Mating Cycles                   | 500                                | 500                                |
| Contact Material & Plating      | Beryllium Copper, Gold over Nickel | Beryllium Copper, Gold over Nickel |
| Contact Plating Spec.           | 50 µin minimum                     | 50 µin minimum                     |
| Dielectric Type                 | PTFE                               | PTFE                               |
| Body Material & Plating         | Passivated Stainless Steel         | Passivated Stainless Steel         |
| Body Plating Spec.              | SAE-AMS-2700                       | SAE-AMS-2700                       |
| Coupling Nut Material & Plating | Passivated Stainless Steel         | Passivated Stainless Steel         |
| Coupling Nut Plating Spec.      | SAE-AMS-2700                       | SAE-AMS-2700                       |
| Hex Size                        | 3/4 inch                           | 3/4 Inch                           |
| Torque                          | 19 in-lbs 2.15 Nm                  | 12 in-lbs 1.36 Nm                  |

### Environmental Specifications

#### Temperature

Operating Range -55 to +165 deg C

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

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC00871/0001 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00871/0001-12 = 12 inches long cable  
 FMC00871/0001-100cm = 100 cm long cable

Low Loss N Male to RA N Male Cable LL142 Coax with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss N Male to RA N Male Cable LL142 Coax with LF Solder FMC00871/0001](https://www.fairviewmicrowave.com/low-loss-n-male-to-ra-n-male-cable-ll142-coax-with-lf-solder-fmc00871-0001)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-to-ra-n-male-cable-ll142-coax-with-lf-solder-fmc00871-0001-p.aspx>

The information contained in 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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



