

## Low Loss Test N Male (Plug) to N Female (Jack) Cable LL335i Coax Up To 18 GHz, 1.35 VSWR in 100 CM

The type N male to type N female 100 cm cable using LL335i coax, part number FMCA1270-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible LL335i coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1270-100CM type N male to type N female cable assembly operates to 18 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. The FMCA1270 high performance test cable's 0.3 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All FMCA1270 cable assemblies are 100% continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

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                    |     |            | 1.35:1 |              |
| Velocity of Propagation |     | 83         |        | %            |
| RF Shielding            | 95  |            |        | dB           |
| 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 (Max.) | 0.4   | 0.46  | 0.58 | 0.78 | 1.03 | dB    |
| Insertion Loss (Typ.) | 0.36  | 0.42  | 0.52 | 0.68 | 0.9  | dB    |
| Power Handling (Max.) | 2,900 | 1,350 | 900  | 650  | 400  | W     |

#### Electrical Specification Notes:

Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly.

### Mechanical Specifications

#### Cable Assembly

Length\* 39.37 in [100 cm]



### Configuration:

- N Male
- N Female
- LL335i

### Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Double Shielded
- FEP Jacket
- 83% Velocity of Propagation
- Shielding effectiveness 95 dB
- Maximum VSWR is 1.35:1 to 18 GHz
- Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °C
- Same day shipment of custom lengths
- 100% Continuity and RF tested

### Applications:

- General Purpose
- Test & Measurement
- Laboratory Use
- General Purpose
- Test & Measurement
- Laboratory Use

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**Cable**

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | LL335i                    |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Solid                     |
| Inner Conductor Material and Plating | Copper, Silver            |
| Dielectric Type                      | PTFE                      |
| Number of Shields                    | 2                         |
| Shield Layer 1                       | Silver Plated Copper Tape |
| Shield Layer 2                       | Aluminum Polyester        |
| Shield Layer 3                       | Silver Plated Copper Wire |
| Outer Conductor Material and Plating | Copper, Silver            |
| Jacket Material                      | FEP, Green                |
| Jacket Diameter                      | 0.3 in [7.62 mm]          |
| Repeated Minimum Bend Radius         | 1.5 in [38.1 mm]          |

**Connectors**

| Description                     | Connector 1                | Connector 2                |
|---------------------------------|----------------------------|----------------------------|
| Type                            | N Male                     | N Female                   |
| Specification                   |                            | MIL-STD-348                |
| Impedance                       | 50 Ohms                    | 50 Ohms                    |
| Contact Material & Plating      | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Contact Plating Spec.           | ASTM-B488 50µ In.          | ASTM-B488 50µ In.          |
| Dielectric Type                 | PTFE                       | PTFE                       |
| Outer Cond Material & Plating   | Passivated Stainless Steel | Passivated Stainless Steel |
| Outer Cond Plating Spec.        | SAE-AMS-2700               | SAE-AMS-2700               |
| 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 |                            |
| Coupling Nut Plating Spec.      | SAE-AMS-2700               |                            |
| Hex Size                        | 3/4 Inch                   |                            |
| Torque                          | 14 in-lbs 1.58 Nm          |                            |

**Environmental Specifications**
**Temperature**

|                 |                   |
|-----------------|-------------------|
| Operating Range | -55 to +125 deg C |
|-----------------|-------------------|

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

**Plotted and Other Data**

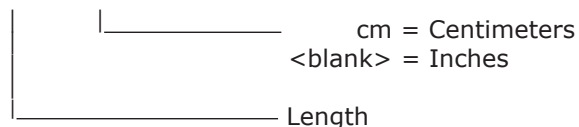
## Notes:

- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

**FMCA1270 - xx uu**



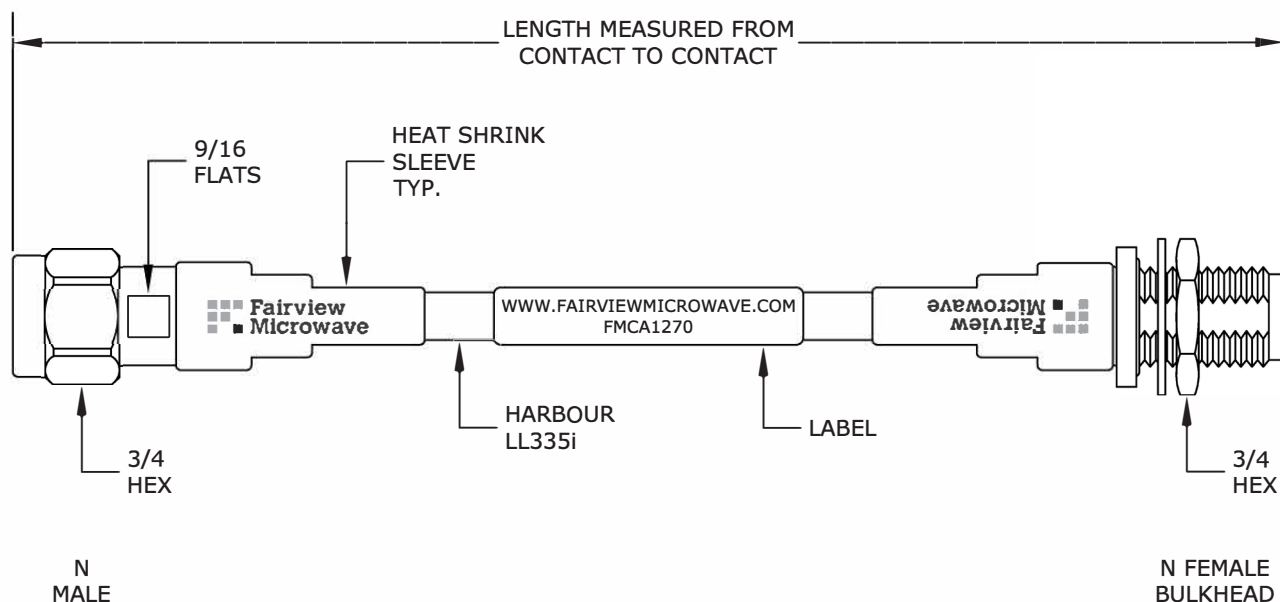
Example: FMCA1270-12 = 12 inches long cable  
FMCA1270-100cm = 100 cm long cable

Low Loss Test N Male (Plug) to N Female (Jack) Cable LL335i Coax Up To 18 GHz, 1.35 VSWR in 100 CM 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 Test N Male \(Plug\) to N Female \(Jack\) Cable LL335i Coax Up To 18 GHz, 1.35 VSWR in 100 CM FMCA1270-100CM](https://www.fairviewmicrowave.com/low-loss-test-n-male-n-female-cable-ll335i-coax-fmca1270-100cm-p.aspx)

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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.



**NOTE:**

LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED . LONGER THAN 48" WILL BE 6" AWAY FROM CONNECTOR .

|                                                                                                                |        |                                                                                                                                                                                     |       |                           |             |
|----------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------|-------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM                                    |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                           |             |
| TITLE<br>Low Loss Test N Male (Plug) to N Female (Jack) Cable<br>LL335i Coax Up To 18 GHz, 1.35 VSWR in 100 CM |        | DWG NO<br><b>FMCA1270</b>                                                                                                                                                           |       | CAGE CODE<br><b>3FKR5</b> |             |
| CAD FILE                                                                                                       | 121916 | SHEET                                                                                                                                                                               | SCALE | N/A                       | SIZE A 2233 |