

## Low Loss Test RA SMA Male to N Female Cable LL335i Coax in 12 Inch

The RA SMA male to type N female 12 inch cable using LL335i coax, part number FMCA1298-12, from Fairview Microwave is in-stock and ships same day. This Fairview SMA 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 FMCA1298-12 SMA male to type N female cable assembly operates to 18 GHz. The right angle SMA interface on the LL335i cable allows for easier connections in tight spaces. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. The FMCA1298 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 FMCA1298 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                    |     |            | 1.4:1 |              |
| 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.) | 0.26  | 0.28  | 0.32 | 0.38 | 0.46 | dB    |
| Insertion Loss (Typ.) | 0.25  | 0.27  | 0.3  | 0.35 | 0.42 | dB    |
| Power Handling (Max.) | 1,800 | 1,200 | 900  | 650  | 400  | W     |

### Mechanical Specifications

**Cable Assembly**  
Length\*

12 in [304.8 mm]



### Configuration:

- SMA Male Right Angle
- N Female
- LL335i

### Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 95 dB
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 83% Velocity of Propagation
- Shielding effectiveness 95 Db
- Maximum VSWR is 1.40:1 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                    | 3                         |
| Shield Layer 1                       | Silver Plated Copper Tape |
| Shield Layer 2                       | Aluminum Polyester        |
| Shield Layer 3                       | Silver Plated Copper Wire |
| 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                            | SMA Male                   | N Female                   |
| Specification                   | MIL-STD-348                | 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. minimum  |
| Dielectric Type                 | PTFE                       | PEI                        |
| Outer Cond Material & Plating   |                            | Passivated Stainless Steel |
| Outer Cond Plating Spec.        |                            | 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                        | 5/16 Inch                  |                            |
| Torque                          | 8 in-lbs 0.9 Nm            |                            |

**Environmental Specifications**
**Temperature**

Operating Range -55 to +125 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA1298 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMCA1298-12 = 12 inches long cable  
 FMCA1298-100cm = 100 cm long cable

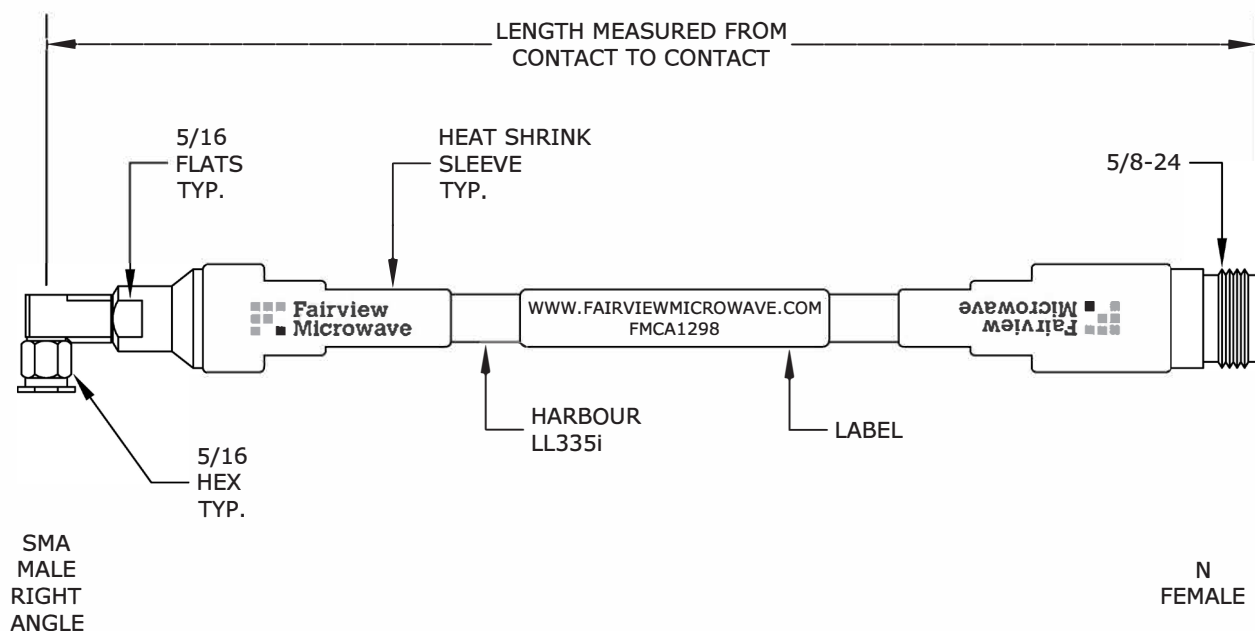
Low Loss Test RA SMA Male to N Female Cable LL335i Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss Test RA SMA Male to N Female Cable LL335i Coax in 12 Inch FMCA1298-12](https://www.fairviewmicrowave.com/low-loss-test-ra-sma-male-n-female-cable-ll335i-coax-fmca1298-12-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><br>Low Loss Test RA SMA Male to N Female Cable LL335i<br>Coax in 12 Inch |        | DWG NO<br><br><b>FMCA1298</b>                                                                                                                                                       |       | CAGE CODE<br><br><b>3FKR5</b> |             |
| CAD FILE                                                                           | 122016 | SHEET                                                                                                                                                                               | SCALE | N/A                           | SIZE A 2233 |