



Low Loss Test RA SMA Male to RA N Male Cable LL335i Coax

The RA SMA male to RA type N male cable using LL335i coax, part number FMCA1297, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to male 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 FMCA1297 SMA male to type N male cable assembly operates to 18 GHz. The right angle SMA and right angle type N interfaces on the LL335i cable allow for easier connections in tight spaces. The triple shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 95 dB. The FMCA1297 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 FMCA1297 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	Тур	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.)	0.06	0.08	0.12	0.18	0.26	dB/ft
	0.2	0.26	0.39	0.59	0.85	dB/m
Insertion Loss (Typ.)	0.05	0.07	0.1	0.15	0.22	dB/ft
Power Handling (Max.)	0.16 1,800	0.23 1,200	0.33 900	0.49 650	0.72 400	dB/m W

Electrical Specification Notes:



Configuration:

- SMA Male Right Angle
- N Male Right Angle
- 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

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Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly. Insertion Loss does not include the loss of the connectors, insertion loss is estimated as .1dB per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable TypeLL335iImpedance50 OhmsInner Conductor TypeSolid

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	
Туре	SMA Male	N Male	
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	
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 & Pla	ting Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Spec.	SAE-AMS-2700	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:

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How to Order

Part Number Configuration:	FMCA1297	- >	(X	uu	
					<pre>cm = Centimeters <black> = Inches Length</black></pre>

Example: FMCA1297-12 = 12 inches long cable

FMCA1297-100cm = 100 cm long cable

Low Loss Test RA SMA Male to RA N Male Cable LL335i Coax 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 RA N Male Cable LL335i Coax FMCA1297

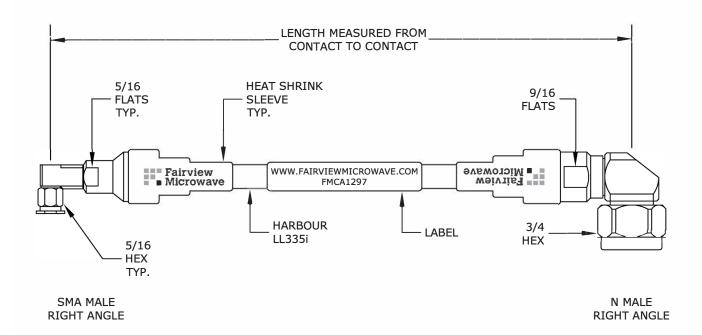
URL: https://www.fairviewmicrowave.com/low-loss-test-ra-sma-male-ra-n-male-cable-ll335i-coax-fmca1297-p.aspx

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.

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NOTE:

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

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
Low Loss Test RA SMA Male to RA N Male Cable LL33	DWG NO FMCA1297			CAGE CODE 3FKR5		
Coax	CAD FILE 122016	SHEET	SCALI	E N/A	SIZE A	2233