

**Low Loss Test RA N Male to RA N Male Cable LL335i  
Coax and RoHS**

The FMCA1281 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 FMCA1281 cable assemblies are 100% Continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

**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.)	0.06 [0.2]	0.08 [0.26]	0.12 [0.39]	0.18 [0.59]	0.26 [0.85]	dB/ft [dB/m]
Insertion Loss (Typ.)	0.05 [0.16]	0.07 [0.23]	0.1 [0.33]	0.15 [0.49]	0.22 [0.72]	dB/ft [dB/m]
Power Handling (Max.)	1,800	1,200	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. Insertion Loss does not include the loss of the connectors, insertion loss is estimated as .1dB per connector.

**Mechanical Specifications**

**Cable Assembly**

Diameter 0.82 in [20.83 mm]

**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



**Configuration:**

- N Male Right Angle
- N Male Right Angle
- LL335i

**Features:**

- 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
- ROHS Compliant
- Same day shipment of custom lengths
- 100% Continuity and RF tested

**Applications:**

- General Purpose
- Test & Measurement
- Laboratory Use

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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 Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM-B488	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 & 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

Mechanical Specification Notes:

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

**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:

**FMCA1281 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

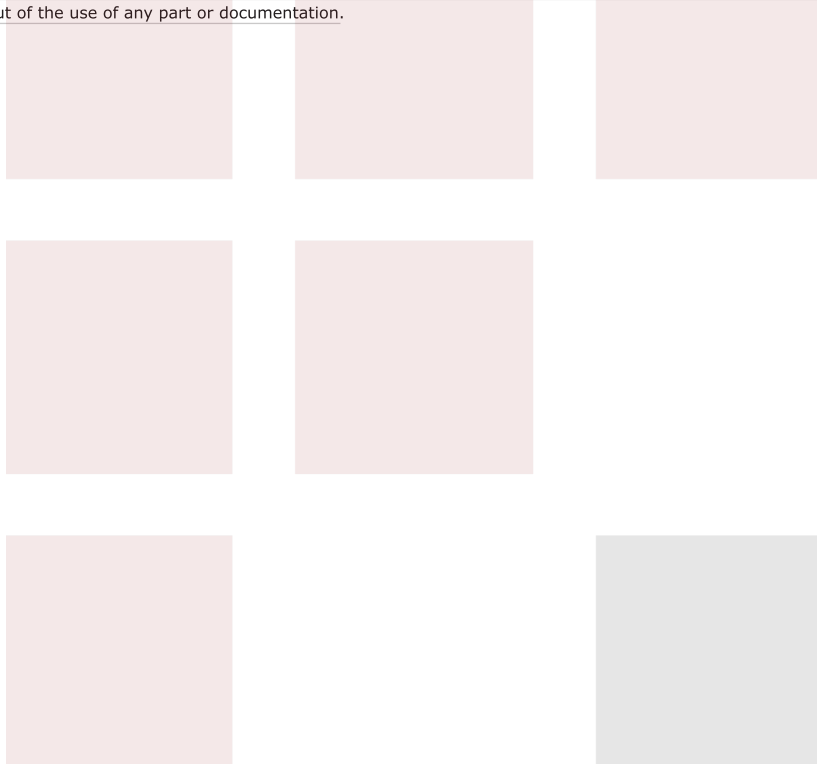
Example: FMCA1281-12 = 12 inches long cable  
 FMCA1281-100cm = 100 cm long cable

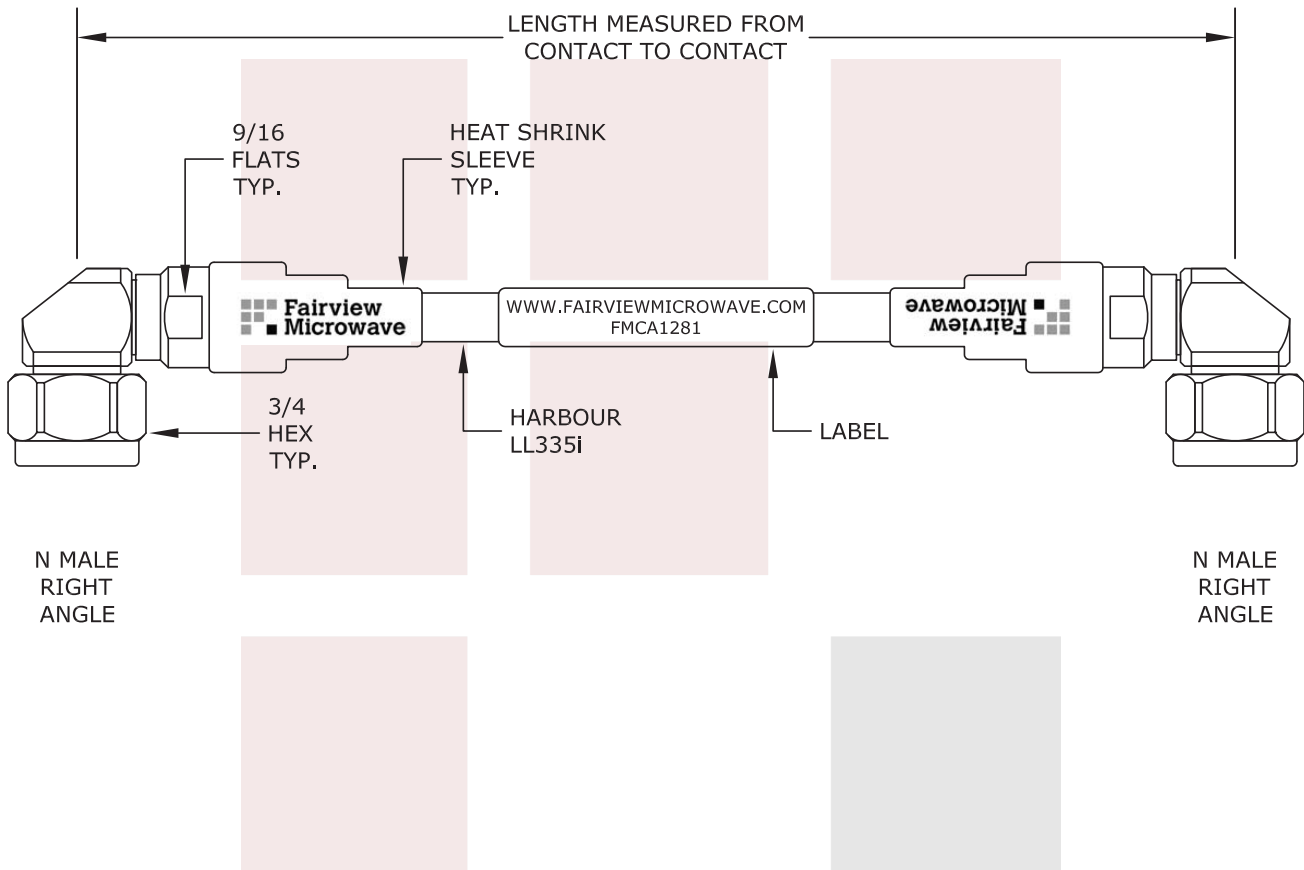
Low Loss Test RA N Male to RA N Male Cable LL335i Coax and RoHS from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low Loss Test RA N Male to RA N Male Cable LL335i Coax and RoHS FMCA1281](#)

URL: <https://www.fairviewmicrowave.com/low-loss-test-ra-n-male-ra-n-male-cable-ll335i-fmca1281-p.aspx>

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**NOTE:**  
 LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED. 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR .

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TITLE Low Loss Test RA N Male to RA N Male Cable LL335i Coax and RoHS		DWG NO <b>FMCA1281</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	121616	SHEET	SCALE	N/A	SIZE A 2233