

# Low Loss N Male to RA SMA Male Cable LL160 Coax in 50 CM

The N Male to RA SMA Male low loss cable using LL160 coax, part number FMCA1715-50CM, from Fairview Microwave is in-stock and ships same day. This N to SMA low loss cable assembly features a 82.5% velocity dielectric manufactured from expanded PTFE tape. This microporous dielectric contributes to the low loss and phase stability of the cables. Our triple shielded coaxial cable construction of Fairview's low loss LL160 provides shielding levels as high as 95 dB. The precision connections are constructed with stainless steel bodies and high temperature insulators, supporting a wide range of temperature from -55 to +165 degrees C. This solid combination of connectors and low loss coax are further enhanced with the addition of heavy-duty heat shrink for improved strain relief for this superior quality RF cable assembly.

Fairview's N Male to RA SMA Male low loss cable FMCA1715-50CM datasheet, specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and high speed digital connections allows designers to configure and customize their signals however they like. From reducing losses or improving phase stability, Fairview microwave has the right low loss cable solutions to meet your needs.

### **Electrical Specifications**

Description	Min	T	ур	Max	U	Inits
Frequency Range	DC			18		GHz
VSWR				1.35:1		
Velocity of Propagation		82.5			%	
RF Shielding	-90					dB
Capacitance		25 [82.02]		pF/fl	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.)	0.24	0.35	0.53	0.76	1.09	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04\*SQRT(F(GHz))dB maximum per connector.

### **Mechanical Specifications**

#### **Cable Assembly**

Length\* 19.69 in [500.13 mm]

#### Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1

LL160

50 Ohms Solid Copper, Silver

PTFE 3

Silver Plated Copper

# FMCA1715-50CM DATA SHEET



### **Configuration:**

- N Male
- SMA Male Right Angle
- LL160

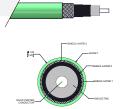
### Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.35:1 to 18 GHz
- -55 to +150 Temperature Range
- Expanded PTFE Tape Dielectric
- Same Day Shipment of Custom Lengths

## **Applications:**

- General Purpose
- Laboratory Use
- Automated Test Systems
- Military Electronics
- Phased Array Antennas
- RF Countermeasures

## **Cable Diagram:**



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

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Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Shield Layer 2 Aluminum Polyester Shield Layer 3 Silver Plated Copper Jacket Material FEP

Jacket Diameter 0.16 in [4.06 mm]

Repeated Minimum Bend Radius 0.8 in [20.32 mm]

### **Connectors**

SMA Male 50 Ohms
D III C C II
Beryllium Copper, Gold
ASTM-B488
PTFE
Passivated Stainless Steel
Passivated Stainless Steel
) )

**Environmental Specifications** 

Temperature

Operating Range -55 to +165 deg C

Compliance Certifications (see product page for current document)

FMCA1715-100cm = 100 cm long cable

**Plotted and Other Data** 

Notes:

### **How to Order**

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

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Low Loss N Male to RA SMA Male Cable LL160 Coax in 50 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 N Male to RA SMA Male Cable LL160 Coax in 50 CM FMCA1715-50CM

The information contained in this document is accurate to the best of our knowledge and representative of the part

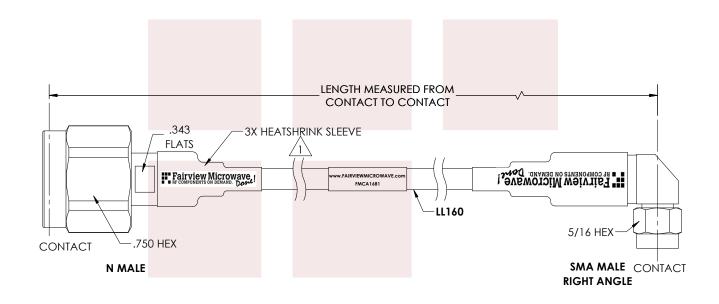
URL: https://www.fairviewmicrowave.com/low-loss-n-male-ra-sma-male-cable-ll160-coax-fmca1715-50cm-p.aspx

described	herein. It ma	ay be necessar	y to mal	ke modificatio	ns to the part a	nd/or t	he documentation of the p	art, in order
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stated, al	specification:	s are nominal.	Fairvie	w Microwave	does not make	any rep	resentation or warranty r	egarding the
			-		urpose, and Fair	view Mi	crowave does not assume	any liability
arising ou	it of the use o	f any part or do	ocument	ation.				

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 BLACK HEAT SHRINK WITH WHITE MARKINGS 3 PLACES.

STANDARD TOLERANCES
.X ±0.2
.XX ±0.01
.XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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 N Male to RA SMA Male Cable LL160 Coax in	DWG NO FMCA17	15		CAGE CODE	3FKR5		
50 CM	CAD FILE 07/18/18	SHEET	SCAL	LE N/A SIZE A	CN2379		