

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

The RA SMA Male to RA SMA Male low loss cable using LL160 coax, part number FMCA1688-50CM, from Fairview Microwave is in-stock and ships same day. This SMA 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 RA SMA Male to RA SMA Male low loss cable FMCA1688-50CM 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	Тур	Max	Units	
Frequency Range	DC		18	GHz	
VSWR			1.35:1		
Velocity of Propagation		82.5		%	
RF Shielding	-90			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 (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] Weight 0.117 lbs [53.07 g]

Cable

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

LL160 50 Ohms Solid Copper, Silver PTFE 3

FMCA1688-50CM DATA SHEET



Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- LL160

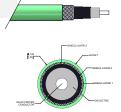
Features:

- 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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Shield Layer 1 Silver Plated Copper 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

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Male		
Impedance	50 Ohms	50 Ohms		
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		
Coupling Nut Material & Pla	ting Passivated Stainless Steel	Passivated Stainless Steel		

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA1688 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA1688-12 = 12 inches long cable

FMCA1688-100cm = 100 cm long cable





Low Loss RA SMA 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 RA SMA Male to RA SMA Male Cable LL160 Coax in 50 CM FMCA1688-50CM

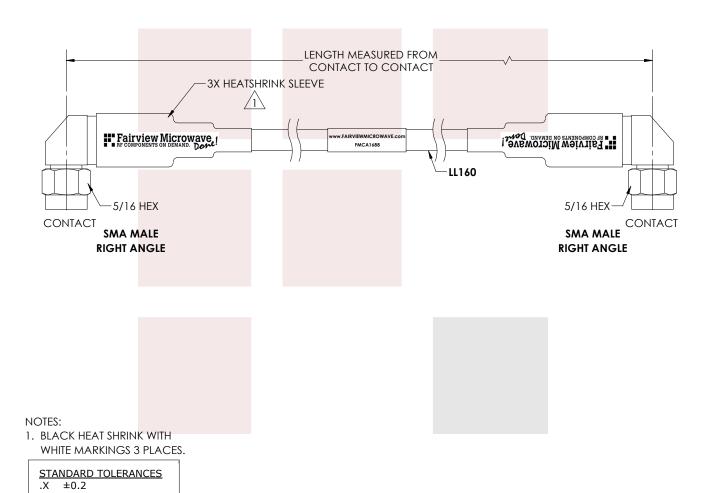
URL: https://www.fairviewmicrowave.com/low-loss-ra-sma-male-ra-sma-male-cable-II160-coax-fmca1688-50cm-p.aspx



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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 RA SMA Male to RA SMA Male Cable LL160	DWG NO FMCA1688		CAGE CODE 3FKR5			
Coax in 50 CM	CAD FILE 07/12/18	SHEET	SCAL	E N/A	SIZE A	CN2379

.XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Mouser Electronics

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Fairview Microwave:

FMCA1688-50CM