



Low Loss SMA Female Bulkhead to SMA Female Bulkhead Cable LL160 Coax

The SMA Female Bulkhead to SMA Female Bulkhead low loss cable using LL160 coax, part number FMCA1687, 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 SMA Female Bulkhead to SMA Female Bulkhead low loss cable FMCA1687 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			1.3:1	
Velocity of Propagation		82.5		%
RF Shielding	-90			dB
Capacitance		25 [82.02	2]	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.)	0.1	0.14	0.22	0.32	0.46	dB/ft
	0.33	0.46	0.72	1.05	1.51	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04*SQRT(F(GHz))dB maximum per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm] Weight 0.069 lbs [31.3 g]

Cable

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

LL160
S0 Ohms
Solid
Copper, Silver
PTFE
3



Configuration:

- SMA Female Bulkhead
- SMA Female Bulkhead
- LL160

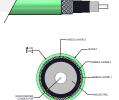
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > -90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- Low VSWR of 1.3:1 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 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





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 Female	SMA Female			
Mount Method	Bulkhead	Bulkhead			
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			
Outer Cond Material & Platin	g Passivated Stainless Ste	el Passivated Stainless Steel			
Body Material & Plating	Passivated Stainless Ste	el Passivated Stainless Steel			

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

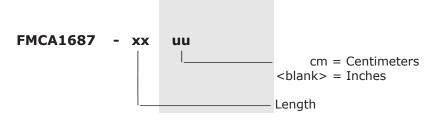
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:



Example: FMCA1687-12 = 12 inches long cable

FMCA1687-100cm = 100 cm long cable

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Low Loss SMA Female Bulkhead to SMA Female Bulkhead Cable LL160 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 SMA Female Bulkhead to SMA Female Bulkhead Cable LL160 Coax FMCA1687

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

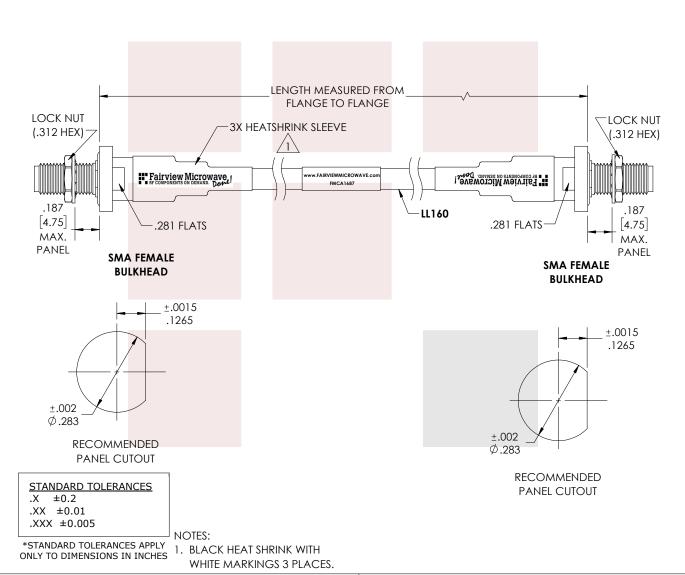
URL: https://www.fairviewmicrowave.com/low-loss-sma-female-sma-female-cable-II160-coax-fmca1687-p.aspx

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rising out of the	use of any par	t or docume	ntation.					

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TITLE

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Bulkhead Cable LL160 Coax

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].

DWG NO

FMCA1687

CAGE CODE

SFKR5