Fairview Microwave
an INFINITE brand

FMCA1751LF DATA SHEET

SMA Male to SMA Male Cable FM-SR086TB Coax with LF Solder

The SMA male to SMA male cable using FM-SR086TB coax, part number FMCA1751LF, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable FM-SR086TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA1751LF SMA male to SMA male cable assembly operates to 18 GHz.

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.

Configuration:

- SMA Male
- SMA Male
- FM-SR086TB

Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles

Applications:

- General Purpose
- Laboratory Use

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.45:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		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.)	0.21	0.3	0.43	0.68	1	dB/ft
	0.69	0.98	1.41	2.23	3.28	dB/m

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*	0 in [0 mm]
Weight	0.04 lbs [18.14 g]

Cable

Cable Type	FM-SR086TB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	50µ in. minimum, MIL-G-4520450µ in. minimum, MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	MIL-G-45204	MIL-G-45204
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	QQ-N-290	QQ-N-290
Hex Size	5/16 in.	5/16 in.
Torque	5 in-lbs 0.57 Nm	5 in-lbs 0.57 Nm

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration: **FMCA1751LF - xx uu**

- uu: cm = Centimeters; <blank> = Inches
- xx: Length

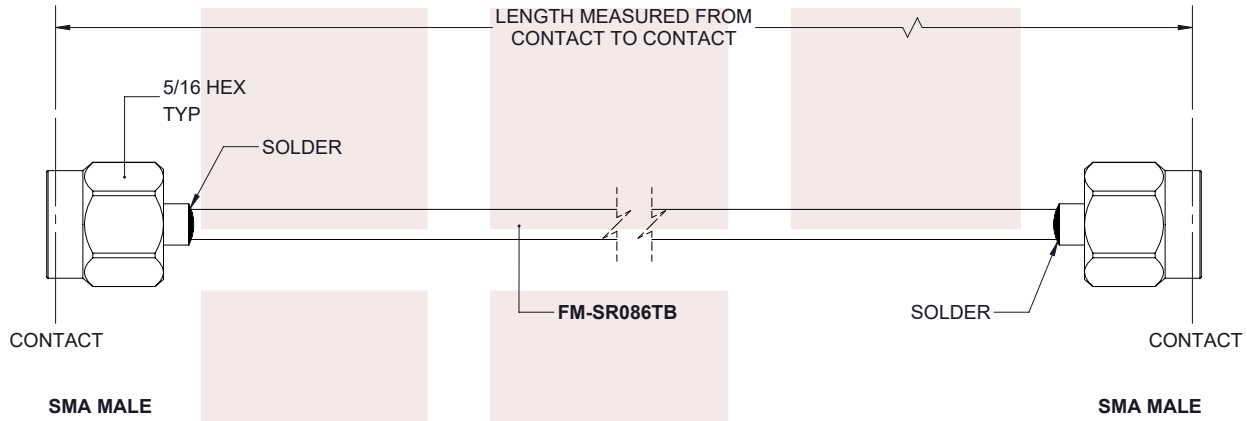
Example: FMCA1751LF-12 = 12 inches long cable
FMCA1751LF-100cm = 100 cm long cable

SMA Male to SMA Male Cable FM-SR086TB Coax with LF Solder 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: SMA Male to SMA Male Cable FM-SR086TB Coax with LF Solder FMCA1751LF

URL: https://www.fairviewmicrowave.com/sma-male-sma-male-cable-rg405-type-.086-coax-fmca1751lf-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.



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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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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].

TITLE
SMA Male to SMA Male Cable FM-SR086TB Coax with LF Solder

DWG NO	CAGE CODE
FMCA1751LF	3FKR5

CAD FILE	SHEET	SCALE	SIZE	
06/17/19	1 OF 1	N/A	A	7361

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