

RA SMA Male to SMA Female Cable FM-SR086TB Coax

The RA SMA male to SMA female cable using FM-SR086TB coax, part number FMC00658, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female 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 FMC00658 SMA male to SMA female cable assembly operates to 12.4 GHz. The right angle SMA interface on the FM-SR086TB cable allows for easier connections in tight spaces.

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.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω /1000ft [Ω /Km]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.549	0.905	dB/ft
	0.49	0.74	1.14	1.8	2.97	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the female connector and 0.2 dB for the male connector.

Mechanical Specifications

Cable Assembly

Weight 0.036 lbs [16.33 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
 Outer Conductor Material and Plating Copper, Tin



Configuration:

- SMA Male Right Angle
- SMA Female
- FM-SR086TB

Features:

- Max Frequency 12.4 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

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Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Stainless Steel, Gold
Outer Cond Plating Spec.		3 µin minimum
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	3 µin minimum	3 µin minimum
Coupling Nut Material & Plating	Stainless Steel, Gold	
Coupling Nut Plating Spec.	3 µin minimum	
Hex Size	5/16 inch	

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMC00658 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

Example: FMC00658-12 = 12 inches long cable
 FMC00658-100cm = 100 cm long cable

RA SMA Male to SMA Female Cable FM-SR086TB 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: [RA SMA Male to SMA Female Cable FM-SR086TB Coax FMC00658](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-sma-female-cable-fm-sr086tb-coax-fmc00658-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.

