



SMA Male to RA SMA Male Cable FM-SR086TB Coax

The SMA male to RA SMA male cable using FM-SR086TB coax, part number FMCA2105, 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 FMCA2105 SMA male to SMA male cable assembly operates to 10 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	Т	ур	Max	ι	Jnits
Frequency Range		DC			10		GHz
VSWR					1.4:1		
Velocity of Propagation			69	9.5			%
Capacitance			29 [9	95.14]		pF/f	t [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	10	GHz
Insertion Loss (Typ.)	0.15	0.32	0.35	0.55	0.81	dB
	0.49	1.05	1.15	1.8	2.66	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly

Length* Diameter 0 in [0 mm] 0.315 in [8 mm]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Outer Conductor Material and Plating

FM-SR086TB 50 Ohms Solid

Copper Clad Steel, Silver PTFE

Tinned Copper Composite Braid



Configuration:

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

Features:

- Max Frequency 10 GHz
- 69.5% Phase Velocity
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

Applications:

- General Purpose
- · Laboratory Use

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Outer Conductor Diameter 0.086 in [2.18 mm]

Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Connectors

Description		Connector 1		Connector 2		
Туре	SMA Male		SMA Male			
Impedance		50 Ohms		50 Ohms		
Contact Material & Plating		Brass, Gold over Nickel		Brass, Gold over Nickel		
Contact Plating Spec.				0.2 µin minimum		
Dielectric Type		PTFE		PTFE		
Body Material & Plating		Brass, Gold over Nic	kel	Brass, Gold over Nic	kel	
Body Plating Spec.				0.1 µin minimum		
Coupling Nut Material & Pla	ating	Passivated Stainless S	Steel	Passivated Stainless S	Steel	
Hex Size		5/16 inch		5/16 inch		
Torque		8 in-lbs 0.9 Nm	1	8 in-lbs 0.9 Nm		
		-		-		

Mechanical Specification Notes:

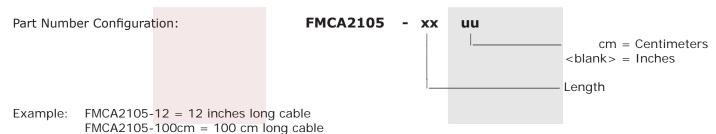
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order



SMA Male to RA SMA Male Cable FM-SR086TB Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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 RA SMA Male Cable FM-SR086TB Coax FMCA2105

URL: https://www.fairviewmicrowave.com/sma-male-ra-sma-male-cable-fm-sr086tb-coax-fmca2105-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.

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





