

FMCA2104-18 DATA SHEET

SMA Male to SMA Male Cable FM-SR086TB Coax in 18 Inch

The SMA male to SMA male 18 inch cable using FM-SR086TB coax, part number FMCA2104-18, 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 FMCA2104-18 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.

Electrical Specifications

•							
Description		Min	Т	ур	Max	ι	Jnits
Frequency Range		DC			18		GHz
VSWR					1.4:1		
Velocity of Propagation			60	9.5			%
Capacitance			29 [9	95.14]		pF/f	t [pF/m]
DC Resistance Inner Cor	nductor		65.7 [215.55]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor		10.2	[33.46]		Ω/100	0ft [Ω/Km]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.54	0.74	1.19	1.74	2.53	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly
Length*
Diameter

Cable

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

Repeated Minimum Bend Radius

FM-SR086TB 50 Ohms Solid Copper Clad Steel, Silver PTFE Tinned Copper Composite Braid

0.78 in [19.81 mm]

18 in [457.2 mm] 0.315 in [8 mm]



Configuration:

- SMA Male
- SMA Male
- FM-SR086TB

Features:

- Max Frequency 18 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

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 Fairview Microwave

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Connectors

Description	Connector 1	Connector 2	-	
Туре	SMA Male	SMA Male	1	
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Gold over Nickel	Brass, Gold over Nickel		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Gold over Nickel	Brass, Gold over Nickel		
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Hex Size	5/16 inch	5/16 inch		
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm		
mpliance Certifications otted and Other Data Notes: • Values at 25°C, sea level.	i (see product page for c			
w to Order				
Part Number Configuration:	FM	ICA2104 - xx u	iu 	cm = Centimete <blank> = Inches</blank>
				Length
Example: FMCA2104-12 =				

SMA Male to SMA Male Cable FM-SR086TB Coax in 18 Inch 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 SMA Male Cable FM-SR086TB Coax in 18 Inch FMCA2104-18

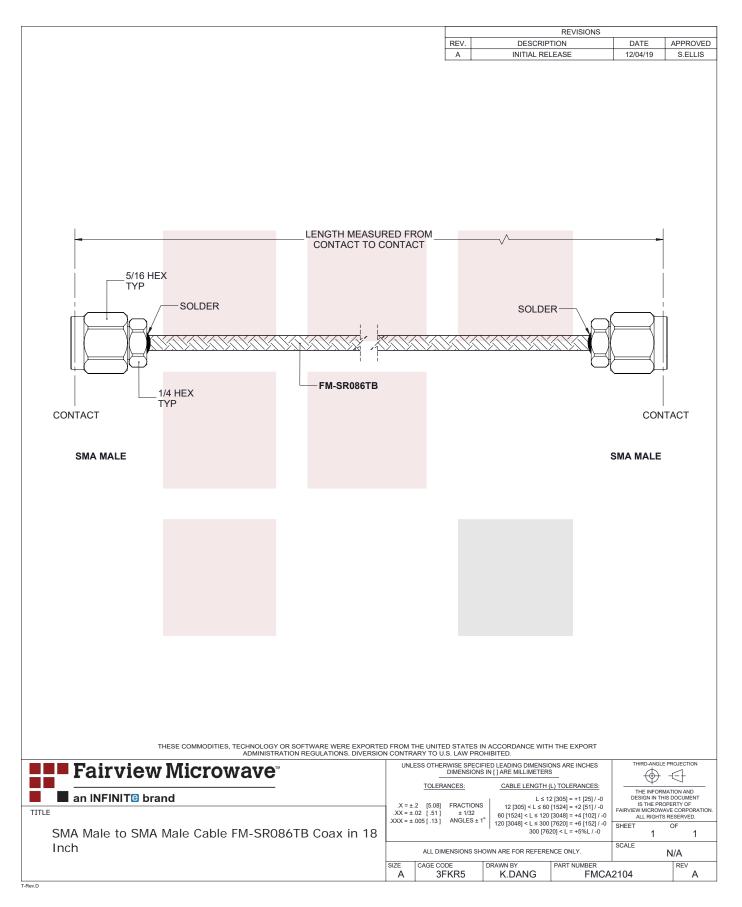
URL: https://www.fairviewmicrowave.com/sma-male-sma-male-cable-fm-sr086tb-coax-fmca2104-18-p.aspx

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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