



RA SMA Male to RA SMA Male Cable FM-SR086TBJ Coax

The RA SMA male to RA SMA male cable using FM-SR086TBJ coax, part number FMCA2117, 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-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA2117 SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interfaces on the FM-SR086TBJ cable allow 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	Ту	р Мах	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		69	.5	%
RF Shielding	100			dB
Group Delay		1.43 [4.69]	ns/ft [ns/m]
Capacitance		29 [95	5.14]	pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.15	0.22	0.35	0.55	0.81	dB
	0.49	0.72	1.15	1.8	2.66	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per 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
Jacket Material

FM-SR086TBJ 50 Ohms Solid

Copper Clad Steel, Silver

PTFE

Tinned Copper Composite Braid FEP, Black



Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- FM-SR086TBJ

Features:

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 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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Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.236 in [5.99 mm]
Repeated Minimum Bend Radius 0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Male		
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Brass, Gold	Brass, Gold		
Contact Plating Spec.	2µ in. minimum	2μ in. minimum		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Gold	Brass, Gold		
Body Plating Spec.	1µ in. minimum	1µ in. minimum		
Coupling Nut Material & Pla	ting Passivated Stainless Stee	Passivated Stainless Steel		
Hex Size	5/16 in.	5/16 in.		
Torque	8 in-lbs 0.9 Nm	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.

Part Number Configuration:

FMCA2117 - xx uu

cm = Centimeters
<black> = Inches

Length

Example: FMCA2117-12 = 12 inches long cable FMCA2117-100cm = 100 cm long cable

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





RA SMA Male to RA SMA Male Cable FM-SR086TBJ 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: RA SMA Male to RA SMA Male Cable FM-SR086TBJ Coax FMCA2117

URL: https://www.fairviewmicrowave.com/ra-sma-male-ra-sma-male-cable-fm-sr086tbj-coax-fmca2117-p.aspx







