

SMA Female Bulkhead to RA MMCX Plug Cable FM-SR086TB Coax with LF Solder

The SMA female bulkhead to RA MMCX plug cable using FM-SR086TB coax, part number FMCA2109, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MMCX cable assembly has a female to plug 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 FMCA2109 SMA female to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX interface on the FM-SR086TB cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.18	0.25	0.33	0.45	0.7	dB
	0.59	0.82	1.08	1.48	2.3	

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*	0 in [0 mm]
Diameter	0.433 in [11 mm]

Cable

Cable Type	FM-SR086TB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE



Configuration:

- SMA Female Bulkhead
- MMCX Plug Right Angle
- FM-SR086TB

Features:

- Max Frequency 6 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 Material and Plating
 Outer Conductor Diameter

Tinned Copper Composite Braid
 0.086 in [2.18 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	MMCX Plug
Mount Method	Bulkhead	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Phosphor Bronze, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Gold

Mechanical Specification Notes:

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

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:

FMCA2109 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2109-12 = 12 inches long cable
 FMCA2109-100cm = 100 cm long cable

SMA Female Bulkhead to RA MMCX Plug Cable FM-SR086TB Coax with LF Solder 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 Female Bulkhead to RA MMCX Plug Cable FM-SR086TB Coax with LF Solder FMCA2109](#)

URL: <https://www.fairviewmicrowave.com/sma-female-ra-mmcx-plug-cable-fm-sr086tb-coax-fmca2109-p.aspx>

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