



SMA Female Bulkhead to RA MCX Plug Cable FM-SR086TBJ Coax with LF Solder

The SMA female bulkhead to RA MCX plug cable using FM-SR086TBJ coax, part number FMCA2121, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to MCX cable assembly has a female to plug 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 FMCA2121 SMA female to MCX plug cable assembly operates to 6 GHz. The right angle MCX interface on the FM-SR086TBJ 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	Т	ур	Max	ι	Jnits
Frequency Range	DC			6		GHz
VSWR				1.4:1		
Velocity of Propagation		6	9.5			%
RF Shielding	100					dB
Group Delay		1.43	[4.69]]	ns/f	t [ns/m]
Capacitance		29 [95.14]		pF/f	t [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.)	0.17	0.15	0.22	0.35	0.6	dB
	0.56	0.49	0.72	1.15	1.97	

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]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating

FM-SR086TBJ 50 Ohms Solid

Copper Clad Steel, Silver



Configuration:

- SMA Female Bulkhead
- MCX Plug Right Angle
- FM-SR086TBJ

Features:

- Max Frequency 6 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
- 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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Dielectric Type

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

PTFE

Tinned Copper Composite Braid

FEP, Black

0.105 in [2.67 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

0.236 in [5.99 mm] 0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2		
Туре	SMA Female	MCX Plug		
Mount Method	Bulkhead			
Impedance	50 Ohms	50 Ohms		
Contact Material & Plating	Beryllium Copper, G	old Brass, Gold		
Dielectric Type	PTFE	PTFE		
Body Material & Plating	Brass, Gold	Brass, Gold		

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 Female Bulkhead to RA MCX Plug Cable FM-SR086TBJ 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 MCX Plug Cable FM-SR086TBJ Coax with LF Solder FMCA2121

URL: https://www.fairviewmicrowave.com/sma-female-ra-mcx-plug-cable-fm-sr086tbj-coax-fmca2121-p.aspx

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





