



SMA Female Bulkhead to RA MMCX Plug Cable FM-SR086TBJ Coax

The SMA female bulkhead to RA MMCX plug cable using FM-SR086TBJ coax, part number FMCA2122, 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-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 FMCA2122 SMA female to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX 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	ns/ft [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.)	0.08 0.26	0.15 0.49	0.22 0.72	0.35 1.15	0.7 2.3	dB

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 Impedance Inner Conductor Type FM-SR086TBJ 50 Ohms Solid



Configuration:

- SMA Female Bulkhead
- MMCX 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 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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Inner Conductor Material and Plating

Dielectric Type

Outer Conductor Material and Plating

Jacket Material Jacket Diameter Copper Clad Steel, Silver

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	MMCX Plug	
Mount Method	Bulkhead		
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Beryllium Copper, Gold ov	ver NickelPhosphor Bronze, Gold over	Nicke
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Gold over Nic	ckel Brass, Gold over Nickel	
-			

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

Example: FMCA2122-12 = 12 inches long cable FMCA2122-100cm = 100 cm long cable

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





SMA Female Bulkhead to RA MMCX Plug 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: SMA Female Bulkhead to RA MMCX Plug Cable FM-SR086TBJ Coax FMCA2122

URL: https://www.fairviewmicrowave.com/sma-female-ra-mmcx-plug-cable-fm-sr086tbj-coax-fmca2122-p.aspx







