



SMA Male to SMA Female Bulkhead Cable FM-SR086TBJ Coax

The SMA male to SMA female bulkhead cable using FM-SR086TBJ coax, part number FMCA2120, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to female 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 FMCA2120 SMA male to SMA female cable assembly operates to 18 GHz. 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	U	Inits
Frequency Range	DC			18		GHz
VSWR				1.4:1		
Velocity of Propagation		6'	9.5			%
RF Shielding	100					dB
Group Delay		1.43	[4.69]		ns/f	[ns/m]
Capacitance		29 [95.14]		pF/f	t [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.22	0.3	0.51	0.76	1.12	dB
	0.72	0.98	1.67	2.49	3.67	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 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

0 in [0 mm] 0.433 in [11 mm]

FM-SR086TBJ 50 Ohms Solid

Copper Clad Steel, Silver

PTFE

Tinned Copper Composite Braid



Configuration:

- SMA Male
- SMA Female Bulkhead
- FM-SR086TBJ

Features:

- Max Frequency 18 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
- 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 Material Jacket Diameter 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 Male	SMA Female				
Mount Method		Bulkhead				
Impedance	50 Ohms	50 Ohms				
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold				
Dielectric Type	PTFE	PTFE				
Body Material & Plating	Brass, Gold	Brass, Gold				
Coupling Nut Material & Pla	ting Passivated Stainless Steel					
Hex Size	5/16 in.					
Torque	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.

How to Order

Part Number Configuration:

FMCA2120 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2120-12 = 12 inches long cable FMCA2120-100cm = 100 cm long cable

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





SMA Male to SMA Female Bulkhead 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 Male to SMA Female Bulkhead Cable FM-SR086TBJ Coax FMCA2120

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/sma-male-sma-female-cable-fm-sr086tbj-coax-fmca2120-p.aspx

described	herein. It	may be	necessar	y to ma	ke modifica	ations to th	ne part a	nd/or t	he docun	nentation	of the part	, in order
to implem	nent improv	ements.	Fairview	/ Microw	ave reserv	es the righ	t to mak	e such	changes	as require	ed. Unless	otherwise
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