



SMA Male to SSMC Jack Bulkhead Cable FM-SR086TBJ Coax

The SMA male to SSMC jack bulkhead cable using FM-SR086TBJ coax, part number FMCA1510, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SSMC cable assembly has a male to jack 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 FMCA1510 SMA male to SSMC jack cable assembly operates to 12.4 GHz. Our RF cable assembly with SSMC 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			12.4		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/ft [pF/m]		
DC Resistance Inner Cor	65.7 [215.55]		Ω/1000ft [Ω/Km]					
DC Resistance Outer Cor	nductor	10.2	[33.46]		Ω/100	0ft [Ω/Km]		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	12.4	GHz
Insertion Loss (Max.)	0.15	0.23	0.55	0.81	0.91	dB/ft
	0.49	0.75	1.8	2.66	2.99	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1~\mathrm{dB}$ per connector.

Mechanical Specifications

Cable Assembly

Diameter 0.315 in [8 mm]

Cable

Cable Type FM-SR086TBJ
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver



Configuration:

- SMA Male
- SSMC Jack Bulkhead
- FM-SR086TBJ

Features:

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- Reliable threaded SSMC cable connection
- Small form factor (SSMC connection is 50% smaller than SMA)
- · In stock and ready to ship

Applications:

- General Purpose
- Laboratory Use
- Software Defined Radio (SDR)
- Data acquisition systems with SSMC connections
- Digital Wideband Receivers
- SSMC patch panels
- A/D Conversion

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Dielectric Type PTFE Number of Shields 1

Outer Conductor Material and Plating Tinned Copper Composite Braid Jacket Material

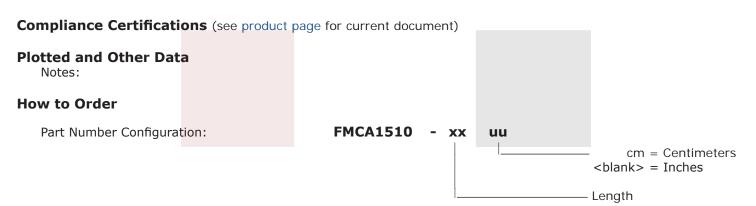
FEP, Black

Jacket Diameter 0.105 in [2.67 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm] Repeated Minimum Bend Radius 0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2				
Туре	SMA Male	SSMC Jack				
Mount Method		Bulkhead				
Impedance	50 Ohms	50 Ohms				
Mating Cycles		500				
Contact Material & Plating	Brass, Gold over Nickel	Beryllium Copper, Gold				
Contact Plating Spec.		MIL-G-45204				
Dielectric Type	PTFE	Teflon				
Outer Cond Material & Plat	ing	Beryllium Copper, Gold				
Outer Cond Plating Spec.		MIL-G-45204				
Body Material & Plating	Brass, Gold over Nickel	Beryllium Copper, Gold				
Body Plating Spec.	MIL-G-4520					
Coupling Nut Material & Pla	iting Passivated Stainless Stee					
Hex Size	5/16 inch					
Torque	8 in-lbs 0.9 Nm	1.75 in-lbs 0.2 Nm				



Example: FMCA1510-12 = 12 inches long cable

FMCA1510-100cm = 100 cm long cable





SMA Male to SSMC Jack 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 SSMC Jack Bulkhead Cable FM-SR086TBJ Coax FMCA1510

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/sma-male-ssmc-jack-cable-rg405-type-.086-coax-fmca1510-p.aspx

to implem	ent improvements.	. Fairview	Microwa	ave reserve	es the righ	it to mak	e such	changes i	as requ	iired. Unles	ss ot	herwise
stated, al	specifications are	nominal.	Fairvie	w Microway	ve does n	ot make	any rep	resentat	ion or	warranty re	gard	ling the
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arising ou	t of the use of any	part or do	cument	ation.								





