

## SMP Female to RA SSMC Plug Cable FM-SR086TBJ Coax

The SMP female to RA SSMC plug cable using FM-SR086TBJ coax, part number FMCA3264, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SSMC 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 FMCA3264 SMP female to SSMC plug cable assembly operates to 12.4 GHz. The right angle SSMC interface on the FM-SR086TBJ cable allows for easier connections in tight spaces.

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		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		$\Omega$ /1000ft [ $\Omega$ /Km]
DC Resistance Outer Conductor		10.2 [33.46]		$\Omega$ /1000ft [ $\Omega$ /Km]
Operating Voltage (AC)			250	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	12.4	GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.549	0.905	dB/ft
	0.49	0.74	1.14	1.8	2.97	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMP connector and 0.2 dB for the SSMC connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.03 lbs [13.61 g]

#### Cable

Cable Type FM-SR086TBJ  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper Clad Steel, Silver



### Configuration:

- SMP Female
- SSMC Plug Right Angle
- FM-SR086TBJ

### Features:

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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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
Type	SMP Female	SSMC Plug
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	Teflon
Outer Cond Material & Plating	Beryllium Copper, Gold	
Outer Cond Plating Spec.	MIL-G-45204	
Body Material & Plating		Brass, Gold
Body Plating Spec.		MIL-G-45204
Coupling Nut Material & Plating		Beryllium Copper, Gold
Coupling Nut Plating Spec.		MIL-G-45204
Torque		1.75 in-lbs 0.2 Nm

**Environmental Specifications**

**Temperature**

Operating Range -55 to +125 deg C

**Compliance Certifications** (see [product page](#) for current document)

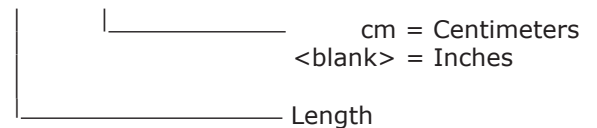
**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMCA3264 - xx uu**



Example: FMCA3264-12 = 12 inches long cable  
FMCA3264-100cm = 100 cm long cable

SMP Female to RA SSMC Plug Cable FM-SR086TBJ Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMP Female to RA SSMC Plug Cable FM-SR086TBJ Coax FMCA3264](https://www.fairviewmicrowave.com/smp-female-to-ra-ssmc-plug-cable-fm-sr086tbj-coax-fmca3264)

URL: <https://www.fairviewmicrowave.com/smp-female-to-ra-ssmc-plug-cable-fm-sr086tbj-coax-fmca3264-p.aspx>

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