

## SMP Female to RA SMP Female Cable FM-SR086TB Coax in 200 cm

The SMP female to RA SMP female 200 cm cable using FM-SR086TB coax, part number FMC00649-200CM, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to SMP cable assembly has a female to female gender configuration with 50 ohm formable FM-SR086TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMC00649-200CM SMP female to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the FM-SR086TB 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		18	GHz
VSWR			1.5:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]
DC Resistance Outer Conductor		10.2 [33.46]		$\Omega/1000\text{ft}$ [ $\Omega/\text{Km}$ ]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	1.78	2.31	3.64	5.29	7.67	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### Mechanical Specifications

#### Cable Assembly

Length*	78.74 in [200 cm]
Weight	0.155 lbs [70.31 g]

#### Cable

Cable Type	FM-SR086TB
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1



### Configuration:

- SMP Female
- SMP Female Right Angle
- FM-SR086TB

### Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity

### Applications:

- General Purpose
- Laboratory Use

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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Outer Conductor Material and Plating      Copper, Tin  
Repeated Minimum Bend Radius              0.78 in [19.81 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMP Female	SMP Female
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	30 µin minimum	MIL-G-45204
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Cond Plating Spec.	3 µin minimum	MIL-G-45204

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC00649 - xx uu**

cm = Centimeters  
<blank> = Inches  
Length

Example: FMC00649-12 = 12 inches long cable  
FMC00649-100cm = 100 cm long cable

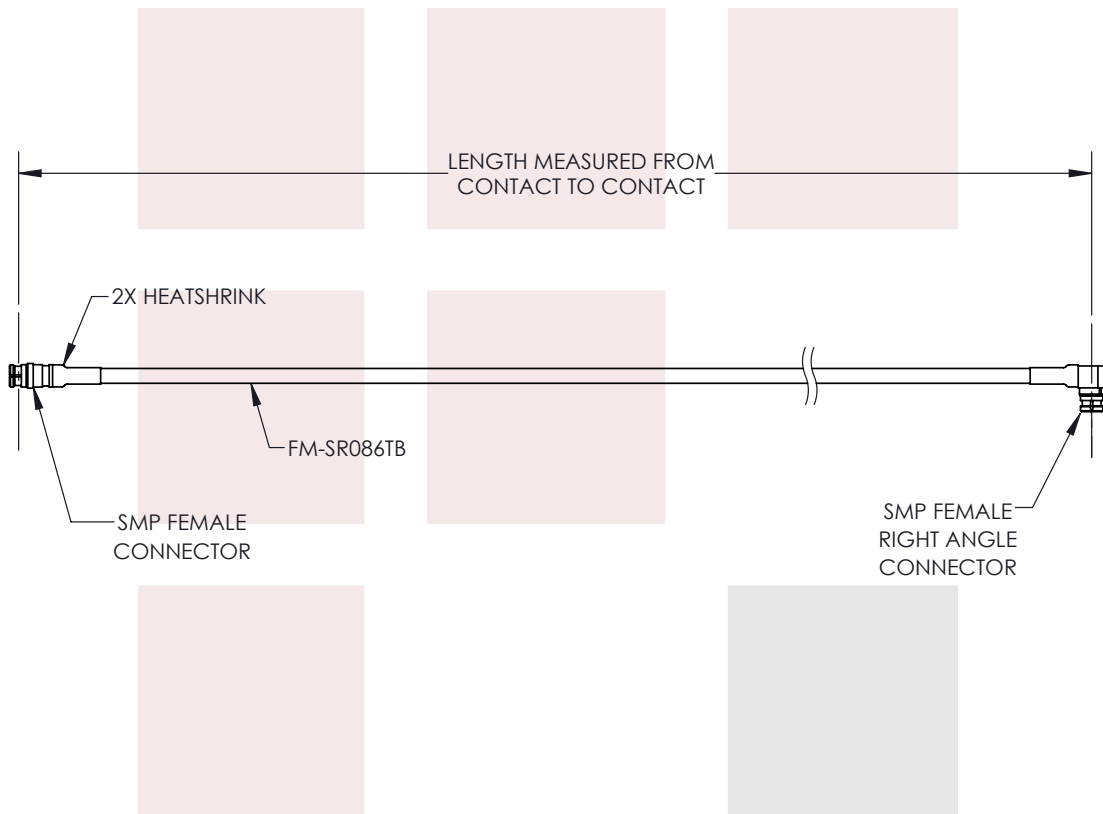
SMP Female to RA SMP Female Cable FM-SR086TB Coax in 200 cm from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMP Female to RA SMP Female Cable FM-SR086TB Coax in 200 cm FMC00649-200CM](#)

URL: <https://www.fairviewmicrowave.com/smp-female-to-ra-smp-female-cable-fm-sr086tb-coax-fmc00649-200cm-p.aspx>

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 to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/10/2022	AGANWANI



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<p>SIZE</p> <p>A</p>	<p>CAGE CODE</p> <p>3FKR5</p>	<p>DRAWN BY</p> <p>BPUCHASKI</p>	<p>ITEM NO.</p> <p>FMC00649</p> <p>REV</p> <p>A</p>															

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