

RA SMP Female to Mini SMP Female Cable FM-SR086TBJ Coax

The RA SMP female to Mini SMP female cable using FM-SR086TBJ, part number FMC00752, from Fairview Microwave is in-stock and ships same day. This Fairview SMP to Mini SMP cable assembly has a female to female gender configuration with 50 ohm FM-SR086TBJ. The FMC00752 SMP female to Mini SMP female cable assembly operates to 18 GHz. The right angle SMP 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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
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]		$\Omega/1000\text{ft}$ [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		$\Omega/1000\text{ft}$ [Ω/Km]
Operating Voltage (AC)			1,500	Vrms
Dielectric Withstanding Voltage (AC)			5,000	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.225	0.306	0.549	0.759	1.122	dB/ft
	0.74	1	1.8	2.49	3.68	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 Mini SMP and 0.2 dB for the SMP connector.

Mechanical Specifications

Cable Assembly

Weight 0.034 lbs [15.42 g]

Cable

Cable Type FM-SR086TBJ
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Tinned Copper Composite Braid



Configuration:

- SMP Female Right Angle
- Mini SMP Female
- FM-SR086TBJ

Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

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Outer Conductor Diameter	0 in [0 mm]
Jacket Material	FEP
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.125 in [3.18 mm]

Connectors

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

Environmental Specifications
Temperature

Operating Range -55 to +125 deg C

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:

FMC00752 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

 Example: FMC00752-12 = 12 inches long cable
 FMC00752-100cm = 100 cm long cable

RA SMP Female to Mini SMP Female 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: [RA SMP Female to Mini SMP Female Cable FM-SR086TBJ Coax FMC00752](#)

URL: <https://www.fairviewmicrowave.com/ra-smp-female-to-mini-smp-female-cable-fm-sr086tbj-coax-fmc00752-p.aspx>

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