

FMC00649-24 DATA SHEET

SMP Female to RA SMP Female Cable FM-SR086TB Coax in 24 Inch

The SMP female to RA SMP female 24 inch cable using FM-SR086TB coax, part number FMC00649-24, 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 FMC00649-24 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.



Configuration:

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

Features:

- Max Frequency 18 GHz
- 69.5% Phase Velocity

Applications:

- General Purpose
- Laboratory Use

Electrical Specifications

Description		Min	Т	ур	Max	ι	Jnits
Frequency Range		DC			18		GHz
VSWR					1.5:1		
Velocity of Propagation			6	9.5			%
Capacitance			29 [9	95.14]		pF/f	t [pF/m]
DC Resistance Inner Cor	ductor		65.7 [215.55]	Ω/100	0ft [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	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.75	0.92	1.32	1.82	2.55	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* Weight 24 in [609.6 mm] 0.036 lbs [16.33 g]

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

FM-SR086TB 50 Ohms Solid Copper Clad Steel, Silver

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Outer Conductor Material and Plating Copper, Tin

Repeated Minimum Bend Radius 0.78 in [19.81 mm]

Connectors

Description	Connector 1	Connector 2		
Туре	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 & Platin	ng Beryllium Copper, Gold	Beryllium Copper, Gold		
Outer Cond Plating Spec.	3 µin minimum	MIL-G-45204		

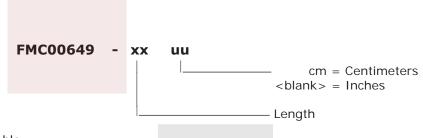
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:



Example: FMC00649-12 = 12 inches long cable

FMC00649-100cm = 100 cm long cable

SMP Female to RA SMP Female Cable FM-SR086TB Coax in 24 Inch 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 24 Inch FMC00649-24

URL: https://www.fairviewmicrowave.com/smp-female-to-ra-smp-female-cable-fm-sr086tb-coax-fmc00649-24-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.

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