

RA SMA Male to RA SMP Female Cable FM-F086 Coax, 90 Degree Clocking

FMC0421085/SP2

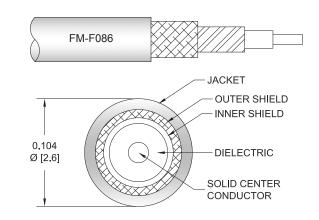
Configuration

Connector 1: SMA Male Right AngleConnector 2: SMP Female Right Angle

Cable Type: FM-F086Coax Flex Type: Flexible

Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 110 dB
- · 69.5% Phase Velocity
- · Double Shielded
- FEP Jacket



Applications

· General Purpose

· Laboratory Use

Description

The RA SMA male to RA SMP female cable using FM-F086 coax, part number FMC0421085/SP2, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a male to female gender configuration with 50 ohm flexible FM-F086 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC0421085/SP2 SMA male to SMP female cable assembly operates to 12.4 GHz. The right angle SMA and right angle SMP interfaces on the FM-F086 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 110 dB.

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	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		95 [311.68]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz



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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss (Typ.)	0.23	0.353	0.52	0.89		dB/ft
	0.75	1.16	1.71	2.92		dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.04 lbs [18.14 g]

Cable

Cable Type FM-F086
Impedance 50 Ohms
Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver Dielectric Type PTFE

Dielectric Type PTF
Number of Shields 2

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid
Jacket Material FEP, Blue

Jacket Material Jacket Diameter

Jacket Diameter0.104 in [2.64 mm]Repeated Minimum Bend Radius0.5 in [12.7 mm]

Connectors

Description	Connector 1	Connector 2
Туре	SMA Male Right Angle	SMP Female Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50μ in. minimum	MIL-G-45204
Dielectric Type	Teflon	PTFE
Body Material and Plating	Stainless Steel, Gold	Beryllium Copper, Gold
Body Plating Specification	3μ in. minimum	MIL-G-45204
Hex Size	5/16 inch	
Torque	8.5 in-lbs 0.96 Nm	
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Environmental Specifications

Operating Range Temperature -55 to +125 deg C



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FMC0421085/SP2

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Example: FMC0421085/SP2-12 = 12 inches long cable

FMC0421085/SP2-100cm = 100 cm long cable

RA SMA Male to RA SMP Female Cable FM-F086 Coax, 90 Degree Clocking from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: RA SMA Male to RA SMP Female Cable FM-F086 Coax, 90 Degree Clocking FMC0421085/SP2

URL: https://www.fairviewmicrowave.com/ra-sma-male-to-ra-smp-female-cable-fm-f086-coax-90-degree-clocking-fmc0421085-sp2-p.aspx

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