



FMCA9975

Configuration

Connector 1: SSMC Plug Right AngleConnector 2: SSMC Plug Right Angle

Cable Type: FM-P047Coax Flex Type: Flexible

Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket

Applications

· General Purpose

· Laboratory Use

Description

The RA SSMC plug to RA SSMC plug cable using FM-P047 coax, part number FMCA9975, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to SSMC cable assembly has a plug to plug gender configuration with 50 ohm flexible FM-P047 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA9975 SSMC plug to SSMC plug cable assembly operates to 12.4 GHz. The right angle SSMC interfaces on the FM-P047 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 90 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		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel	Length	Frequency	1000	2500	5000	10000	12400	MHz	weight (ms)
FMCA9975	Custom Lengths	Insertion Loss (Typ.)	0.34	0.54	0.786	1.169	1.327	dB/ft	
I WICA9973	Available	ilisertion Loss (Typ.)	1.1	1.77	2.58	3.84	4.36	dB/m	
FMCA9975-6	6 inch	Insertion Loss (Typ.)	0.77	0.87	1	1.19	1.27	dB	0.015
FMCA9975-12	12 inch	Insertion Loss (Typ.)	0.94	1.14	1.39	1.77	1.93	dB	0.016
FMCA9975-24	24 inch	Insertion Loss (Typ.)	1.27	1.68	2.18	2.94	3.26	dB	0.02
FMCA9975-36	36 inch	Insertion Loss (Typ.)	1.61	2.22	2.96	4.11	4.59	dB	0.024
FMCA9975-48	48 inch	Insertion Loss (Typ.)	1.94	2.76	3.75	5.28	5.91	dB	0.028

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.3 dB Loss due to Connector 2: 0.3 dB Base Weight: 0.016 pounds 0.00031 pounds Additional Weight per Inch:

Mechanical Specifications

Cable Assembly

Weight 0.016 lbs [7.26 g]

Cable

Cable Type FM-P047 Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver Dielectric Type **FEP**

Number of Shields Shield Layer 1

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

Jacket Diameter 0.056 in [1.42 mm] One Time Minimum Bend Radius 0.2 in [5.08 mm] 0.4 in [10.16 mm] Repeated Minimum Bend Radius





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Connectors

Description	Connector 1	Connector 2	
Туре	SSMC Plug Right Angle	SSMC Plug Right Angle	
Impedance	50 Ohms	50 Ohms	
Configuration	Right Angle	Right Angle	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	MIL-G-45204	MIL-G-45204	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Brass, Gold	Brass, Gold	
Body Plating Specification	MIL-G-45204	MIL-G-45204	
Coupling Nut Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Coupling Nut Plating Specification	MIL-G-45204	MIL-G-45204	

Environmental Specifications

Operating Range Temperature -65 to +165 deg C

Shock Method 213, Condition B, 75G @6ms @1/2 sine

Vibration Method 204, Condition D (20G)

Salt Fog Method 101, Condition B, 5% salt solution

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

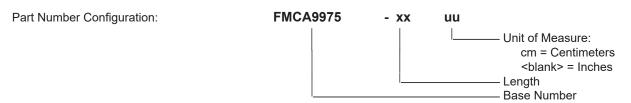




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Typical Performance Data

How to Order



Example: FMCA9975-12 = 12 inches long cable

FMCA9975-100cm = 100 cm long cable

RA SSMC Plug to RA SSMC Plug Cable FM-P047 Coax 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 ondemand.

For additional information on this product, please click the following link: RA SSMC Plug to RA SSMC Plug Cable FM-P047 Coax FMCA9975

URL: https://www.fairviewmicrowave.com/ra-ssmc-plug-to-ra-ssmc-plug-cable-fm-p047-coax-fmca9975-p.aspx

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