



FMCA9982

Configuration

Connector 1: SSMC Plug
Connector 2: SSMC Plug
Cable Type: FM-P047
Coax Flex Type: Flexible

Features

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

Applications

· General Purpose

· Laboratory Use

Description

The SSMC plug to SSMC plug cable using FM-P047 coax, part number FMCA9982, 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 FMCA9982 SSMC plug to SSMC plug cable assembly operates to 12.4 GHz. 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





FMCA9982

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2500	5000	10000	12400	MHz	weight (ibs)
FMCA9982	Custom Lengths	Insertion Loss (Typ.)	0.34	0.54	0.786	1.169	1.327	dB/ft	
	Available		1.1	1.77	2.58	3.84	4.36	dB/m	
FMCA9982-6	6 inch	Insertion Loss (Typ.)	0.77	0.87	1	1.19	1.27	dB	0.017
FMCA9982-12	12 inch	Insertion Loss (Typ.)	0.94	1.14	1.39	1.77	1.93	dB	0.018
FMCA9982-24	24 inch	Insertion Loss (Typ.)	1.27	1.68	2.18	2.94	3.26	dB	0.022
FMCA9982-36	36 inch	Insertion Loss (Typ.)	1.61	2.22	2.96	4.11	4.59	dB	0.026
FMCA9982-48	48 inch	Insertion Loss (Typ.)	1.94	2.76	3.75	5.28	5.91	dB	0.03

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: 0.018 pounds Additional Weight per Inch: 0.00031 pounds

Mechanical Specifications

Cable Assembly

Weight 0.018 lbs [8.16 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





FMCA9982

Connectors

Description	Connector 1	Connector 2
Туре	SSMC Plug	SSMC Plug
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
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	Beryllium Copper, Gold	Beryllium Copper, 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
Torque	1.75 in-lbs 0.2 Nm	1.75 in-lbs 0.2 Nm

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)

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

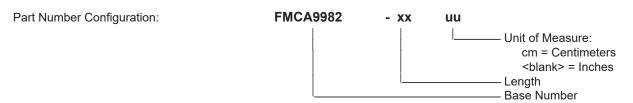




FMCA9982

Typical Performance Data

How to Order



Example: FMCA9982-12 = 12 inches long cable

FMCA9982-100cm = 100 cm long cable

SSMC Plug to 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: SSMC Plug to SSMC Plug Cable FM-P047 Coax FMCA9982

URL: https://www.fairviewmicrowave.com/ssmc-plug-to-ssmc-plug-cable-fm-p047-coax-fmca9982-p.aspx

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