



FMCA9985

Configuration

· Connector 1: SSMC Plug

· Connector 2: SSMC Jack Bulkhead

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 SSMC plug to SSMC jack bulkhead cable using FM-P047 coax, part number FMCA9985, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to SSMC cable assembly has a plug to jack 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 FMCA9985 SSMC plug to SSMC jack cable assembly operates to 12.4 GHz. Our RF cable assembly with SSMC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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)
r art Number	Lengui	Frequency	1000	2500	5000	10000	12400	MHz	weight (hbs)
FMCA9985	Custom Lengths	Insertion Loss (Typ.)	0.34	0.54	0.786	1.169	1.327	dB/ft	
I WICA3383	Available	ilisertion Loss (Typ.)	1.1	1.77	2.58	3.84	4.36	dB/m	
FMCA9985-6	6 inch	Insertion Loss (Typ.)	0.77	0.87	1	1.19	1.27	dB	0.017
FMCA9985-12	12 inch	Insertion Loss (Typ.)	0.94	1.14	1.39	1.77	1.93	dB	0.018
FMCA9985-24	24 inch	Insertion Loss (Typ.)	1.27	1.68	2.18	2.94	3.26	dB	0.022
FMCA9985-36	36 inch	Insertion Loss (Typ.)	1.61	2.22	2.96	4.11	4.59	dB	0.026
FMCA9985-48	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 dBLoss due to Connector 2:0.3 dBBase Weight:0.018 poundsAdditional 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 2
Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid

Jacket Material FEP, Blue

Jacket Diameter0.056 in [1.42 mm]One Time Minimum Bend Radius0.2 in [5.08 mm]Repeated Minimum Bend Radius0.4 in [10.16 mm]





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Connectors

Description	Connector 1	Connector 2
Туре	SSMC Plug	SSMC Jack Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-G-45204
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	
Coupling Nut Plating Specification	MIL-G-45204	
Torque	1.75 in-lbs 0.2 Nm	1.75 in-lbs 0.2 Nm

-65 to +165 deg C

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

Environmental Specifications

Operating Range Temperature

Shock 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:





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Typical Performance Data

How to Order



Example: FMCA9985-12 = 12 inches long cable

FMCA9985-100cm = 100 cm long cable

SSMC Plug to SSMC Jack Bulkhead 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 on-demand.

For additional information on this product, please click the following link: SSMC Plug to SSMC Jack Bulkhead Cable FM-P047 Coax FMCA9985

URL: https://www.fairviewmicrowave.com/ssmc-plug-to-ssmc-jack-bulkhead-cable-fm-p047-coax-fmca9985-p.aspx

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