

SSMC Jack Bulkhead to SSMC Jack Bulkhead Cable FM-P047 Coax

FMCA9983

Configuration

Connector 1: SSMC Jack BulkheadConnector 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
- · 500 Mating Cycles

Applications

· General Purpose

· Laboratory Use

Description

The SSMC jack bulkhead to SSMC jack bulkhead cable using FM-P047 coax, part number FMCA9983, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to SSMC cable assembly has a jack 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 FMCA9983 SSMC jack 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)
		Frequency	1000	2500	5000	10000	12400	MHz	
FMCA9983	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	
FMCA9983-6	6 inch	Insertion Loss (Typ.)	0.77	0.87	1	1.19	1.27	dB	0.016
FMCA9983-12	12 inch	Insertion Loss (Typ.)	0.94	1.14	1.39	1.77	1.93	dB	0.017
FMCA9983-24	24 inch	Insertion Loss (Typ.)	1.27	1.68	2.18	2.94	3.26	dB	0.021
FMCA9983-36	36 inch	Insertion Loss (Typ.)	1.61	2.22	2.96	4.11	4.59	dB	0.025
FMCA9983-48	48 inch	Insertion Loss (Typ.)	1.94	2.76	3.75	5.28	5.91	dB	0.029

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: 0.017 pounds 0.00031 pounds Additional Weight per Inch:

Mechanical Specifications

Cable Assembly

Weight 0.017 lbs [7.71 g]

Cable

Cable Type FM-P047 Impedance 50 Ohms Inner Conductor Type Solid Copper, Silver Inner Conductor Material and Plating

Dielectric Type **FEP** Number of Shields

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

Jacket Material 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 Jack Bulkhead	SSMC Jack Bulkhead
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
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Plating Specification	MIL-G-45204	MIL-G-45204
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body 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)

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

Part Number Configuration:

FMCA9983 - xx uu

Unit of Measure:
cm = Centimeters

chlank> = Inches

Base Number

Example: FMCA9983-12 = 12 inches long cable

FMCA9983-100cm = 100 cm long cable

SSMC Jack Bulkhead to SSMC Jack Bulkhead Cable FM-P047 Coax from Fairview Microwave is in-stock and available to ship sameday. 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 Jack Bulkhead to SSMC Jack Bulkhead Cable FM-P047 Coax FMCA9983

URL: https://www.fairviewmicrowave.com/ssmc-jack-bulkhead-to-ssmc-jack-bulkhead-cable-fm-p047-coax-fmca9983-p. aspx

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