

VITA 67 Mini SMP Female to Mini SMP Male Cable
FM-P047HF Coax in 12 Inch

The Mini SMP female to Mini SMP male 12 inch cable using FM-P047HF coax, part number FMCA9720-12, from Fairview Microwave is in-stock and ships same day. This Fairview Mini SMP to Mini SMP cable assembly has a female to male gender configuration with 50 ohm flexible coax. Fairview Microwave's VITA 67 assemblies are high-density, high-performance, fixed-length RF cable assemblies that fit into VITA 67 blocks and attach to the PCB board which makes it ideal for applications where tight bends and flexure is required. The FMCA9720-12 Mini SMP female to Mini SMP male cable assembly operates to 40 GHz.

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	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR			1.45:1	
Velocity of Propagation		70		%
RF Shielding	90			dB
Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Typ.)	0.74	0.99	1.37	1.96	2.89	dB

Electrical Specification Notes:
 Values at 25°C, sea level.

Mechanical Specifications
Cable Assembly

Length* 12 in [304.8 mm]
 Weight 0.121 lbs [54.88 g]

Cable

Cable Type FM-P047HF
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type FEP
 Shield Layer 1 Silver Plated Copper Tape


Configuration:

- Mini SMP Female
- Mini SMP Male
- FM-P047HF

Features:

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Standard MIL-STD-348 SMPM interface
- Push-on/snap-on mating style for quick installation
- Mini SMP (SMPM) Female compatible with VITA 67 (4-port) and (8-port) blocks
- Mini SMP (SMPM) Male Compatible with VITA 67 (4-port) and (8-port) blocks

Applications:

- General Purpose
- Laboratory Use
- Scientific research
- High-reliability, high-density for aerospace & defense application
- Ground base station & communication systems, avionics, radar systems

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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female	Mini SMP Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM B488	ASTM B488
Body Material & Plating	Brass, Gold	Brass, Gold
Body Plating Spec.	ASTM B488	ASTM B488

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA9720 - xx uu

cm = Centimeters
<blank> = Inches

Length

Example: FMCA9720-12 = 12 inches long cable
FMCA9720-100cm = 100 cm long cable

VITA 67 Mini SMP Female to Mini SMP Male Cable FM-P047HF Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [VITA 67 Mini SMP Female to Mini SMP Male Cable FM-P047HF Coax in 12 Inch FMCA9720-12](#)

URL: <https://www.fairviewmicrowave.com/vita-67-mini-smp-female-to-mini-smp-male-cable-fm-p047hf-coax-in-12-inch-fmca9720-12-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

