

VITA 67 Mini SMP Male to Right Angle SMP Female Cable FM-P047HF Coax in 6 Inch

The Mini SMP male to Right Angle SMP female 6 inch cable using FM-P047HF coax, part number FMCA9728-6, from Fairview Microwave is in-stock and ships same day. This Fairview Mini SMP to SMP cable assembly has a male to female 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 FMCA9728-6 Mini SMP male to SMP female cable assembly operates to 18 GHz. The right angle SMP interface on the cable allows for easier connections in tight spaces.

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		18	GHz
VSWR			1.25:1	
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	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.37	0.45	0.58	0.76	1.03	dB

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

Mechanical Specifications
Cable Assembly

Length* 6 in [152.4 mm]
 Weight 0.075 lbs [34.02 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 Male
- SMP Female Right Angle
- FM-P047HF

Features:

- Max Frequency 18 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

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Male	SMP Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	ASTM B488	MIL-G-45204
Body Material & Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Spec.	ASTM B488	MIL-G-45204

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:

FMCA9728 - xx uu

cm = Centimeters
<blank> = Inches

Length

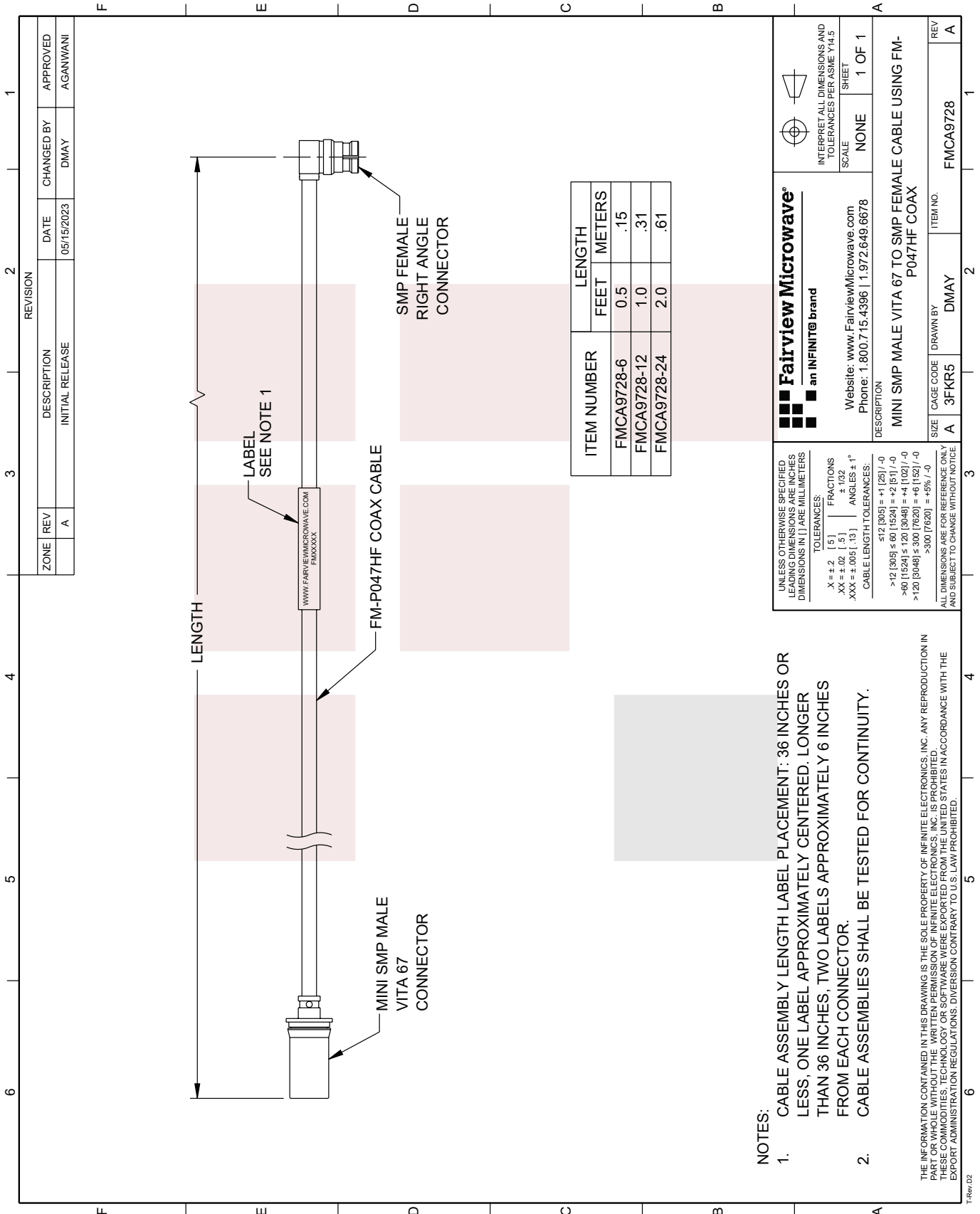
Example: FMCA9728-12 = 12 inches long cable
FMCA9728-100cm = 100 cm long cable

VITA 67 Mini SMP Male to Right Angle SMP Female Cable FM-P047HF Coax in 6 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 Male to Right Angle SMP Female Cable FM-P047HF Coax in 6 Inch FMCA9728-6](#)

URL: <https://www.fairviewmicrowave.com/vita-67-mini-smp-male-to-ra-smp-female-cable-fm-p047hf-coax-in-6-inch-fmca9728-6-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.



ITEM NUMBER	LENGTH	
	FEET	METERS
FMCA9728-6	0.5	.15
FMCA9728-12	1.0	.31
FMCA9728-24	2.0	.61

<p>Fairview Microwave[®] an INFINIT[®] brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET</p> <p>SCALE NONE</p> <p>1 OF 1</p>
<p>DESCRIPTION MINI SMP MALE VITA 67 TO SMP FEMALE CABLE USING FM-P047HF COAX</p>		
SIZE A	CAGE CODE 3FKR5	ITEM NO. FMCA9728
REV A	DRAWN BY DMAY	REV A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X ± .2 [.5] FRACTIONS
 .XX ± .02 [.5] ± .132 ANGLES ± 1°
 .XXX ± .005 [.13]

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ≤ +1 [25] / -0
 > 12 [305] ≤ 60 [1524] = +2 [51] / -0
 > 60 [1524] ≤ 120 [3048] = +4 [102] / -0
 > 120 [3048] ≤ 300 [7620] = +6 [152] / -0
 > 300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.