



RA SMPS Female to 2.92mm Female Cable FM-P047HF Coax

The RA SMPS female to 2.92mm female cable using FM-P047HF coax, part number FMCA9962, from Fairview Microwave is in-stock and ships same day. This Fairview SMPS to 2.92mm cable assembly has a female to female gender configuration with 50 ohm flexible FM-P047HF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA9962 SMPS female to 2.92mm female cable assembly operates to 40 GHz. The right angle SMPS interface on the FM-P047HF cable allows for easier connections in tight spaces. 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	Min	Т	ур	Max	U	nits
Frequency Range	DC			40	(GHz
VSWR				1.5:1		
Velocity of Propagation		7	70			%
RF Shielding	90					dB
Capacitance		29 [9	95.14]		pF/ft	[pF/m]

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number	Part Number Length	Frequency	2500	5000	10000	20000	40000	MHz	
FMCA9962	Custom Lengths	Insertion Loss (Typ.)	0.55	0.8	1.17	1.78	2.77	dB/ft	
FIVICA9962	Available	ilisertion Loss (Typ.)	1.81	2.63	3.84	5.84	9.09	dB/m	
FMCA9962-6	6 inch	Insertion Loss (Typ.)	0.57	0.77	1.07	1.53	2.25	dB	0.009
FMCA9962-12	12 inch	Insertion Loss (Typ.)	0.84	1.17	1.65	2.42	3.63	dB	0.011
FMCA9962-18	18 inch	Insertion Loss (Typ.)	1.12	1.57	2.24	3.31	5.02	dB	0.013

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: 0.12*SQRT(FGHz) dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.011 pounds
Additional Weight per Inch: 0.00033 pounds

Mechanical Specifications

Cable Assembly

Weight

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2

FM-P047HF

0.0174 lbs [7.89 g]

50 Ohms Solid Copper, Silver PTFE 2

Silver Plated Copper Tape Silver Plated Copper Braid



Configuration:

- SMPS Female Right Angle
- 2.92mm Female
- FM-P047HF

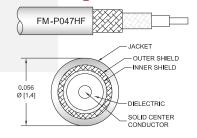
Features:

- Max Frequency 40 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

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

Cable Diagram:



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Jacket Material FEP, Blue

Jacket Diameter 0.06 in [1.52 mm]

Repeated Minimum Bend Radius 0.1 in [2.54 mm]

Connectors

Description	Connector 1	Connector 2			
Туре	SMPS Female Push-	SMPS Female Push-on 2.92mm Female Threaded			
Impedance	50 Ohms	50 Ohms 50 Ohms			
Contact Material & Plating	Beryllium Copper, Go	Beryllium Copper, GoldBeryllium Copper, Gold over Nic			
Contact Plating Spec.	50 μin minimum	50 µin minimum			
Dielectric Type	PTFE	PEI			
Outer Cond Material & Platin	ng Beryllium Copper, Go	old Passivated Stainless Steel			
Outer Cond Plating Spec.	50 μin minimum	SAE-AMS-2700			
Body Material & Plating	Beryllium Copper, Go	old Passivated Stainless Steel			
Body Plating Spec.	30 μin minimum	SAE-AMS-2700			

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

RA SMPS Female to 2.92mm Female Cable FM-P047HF Coax 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: RA SMPS Female to 2.92mm Female Cable FM-P047HF Coax FMCA9962

URL: https://www.fairviewmicrowave.com/ra-smps-female-to-2.92mm-female-cable-fm-p047hf-coax-fmca9962-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.

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