



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

The SMPS female to 2.92mm female cable using FM-P047HF coax, part number FMCA9955, 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 FMCA9955 SMPS female to 2.92mm female cable assembly operates to 40 GHz. 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**

Min	Т	ур	Max	U	nits
DC			40	(	GHz
			1.5:1		
	-	70			%
90					dB
	29 [9	95.14]		pF/ft	[pF/m]
	DC	DC 7	DC 70 90	DC 40 1.5:1 70	DC 40 0 1.5:1 70 90

## Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibei	Length	Frequency	2500	5000	10000	20000	40000	MHz	weight (ibs)
FMCA9955	Custom Lengths	Insertion Loss (Typ.)	0.55	0.8	1.17	1.78	2.77	dB/ft	
FIVICA9933	Available	ilisertion Loss (Typ.)	1.81	2.63	3.84	5.84	9.09	dB/m	
FMCA9955-6	6 inch	Insertion Loss (Typ.)	0.54	0.73	1.01	1.44	2.12	dB	0.009
FMCA9955-12	12 inch	Insertion Loss (Typ.)	0.81	1.13	1.59	2.33	3.51	dB	0.011
FMCA9955-18	18 inch	Insertion Loss (Typ.)	1.09	1.53	2.18	3.22	4.89	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: 0.1\*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 0.01711 lbs [7.76 g]

#### Cable

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

FM-P047HF

50 Ohms
Solid
Copper, Silver
PTFE
2
Silver Plated Copper Tape
Silver Plated Copper Braid

FEP, Blue



# **Configuration:**

- SMPS Female
- 2.92mm Female
- FM-P047HF

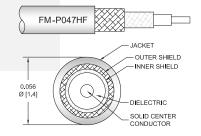
## **Features:**

- 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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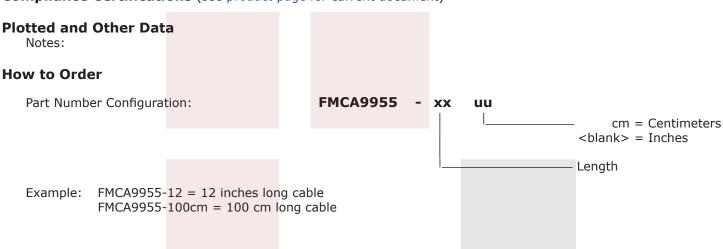
Jacket Diameter 0.06 in [1.52 mm]

Repeated Minimum Bend Radius 0.1 in [2.54 mm]

#### **Connectors**

Description	Connect	Connector 1 Connector 2				
Туре	SMPS Female	SMPS Female Push-on 2.92mm Female Threaded				
Impedance	50 Ohm	50 Ohms		50 Ohms		
Contact Material & Plating	Beryllium Copp	Beryllium Copper, GoldBeryllium Copper, Gold over Ni				
Contact Plating Spec.	50 μin mini	50 μin minimum 50 μin minimum		num		
Dielectric Type	PTFE		PEI			
Outer Cond Material & Plati	ng Beryllium Copp	per, Gold	Passivated Stainl	ess Steel		
Outer Cond Plating Spec.	50 µin mini	mum	SAE-AMS-2	700		
Body Material & Plating	Beryllium Copp	per, Gold	Passivated Stainl	ess Steel		
Body Plating Spec.	30 µin mini	mum	SAE-AMS-2	700		

# **Compliance Certifications** (see product page for current document)



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: SMPS Female to 2.92mm Female Cable FM-P047HF Coax FMCA9955

URL: https://www.fairviewmicrowave.com/smps-female-to-2.92mm-female-cable-fm-p047hf-coax-fmca9955-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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