

VITA 67.3 Smooth Bore Mini SMP Male to SMPS Female Cable FM-P047HF Coax

FMCA100376

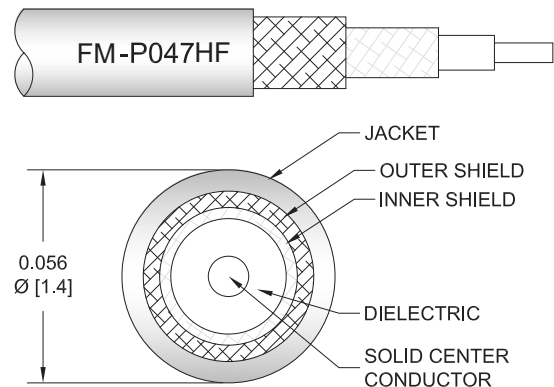


Configuration

- Connector 1: Smooth Bore Mini SMP Male
- Connector 2: SMPS Female
- Cable Type: FM-P047HF
- Coax Flex Type: High Flex

Features

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



Applications

- General Purpose
- Laboratory Use

Description

The Mini SMP male smooth bore to SMPS female cable using FM-P047HF coax, part number FMCA100376, from Fairview Microwave is in-stock and ships same day. This Fairview Mini SMP to SMPS cable assembly has a male to female gender configuration with 50 ohm high flex FM-P047HF coax. The FMCA100376 Mini SMP male to SMPS 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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	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	2500	5000	10000	20000	40000	MHz	
FMCA100376	Custom Lengths Available	Insertion Loss (Typ.)	0.557	0.808	1.177	1.784	2.774	dB/ft	
			1.83	2.66	3.87	5.86	9.11	dB/m	
FMCA100376-6	6 In	Insertion Loss (Typ.)	0.48	0.61	0.79	1.1	1.59	dB	0.005
FMCA100376-9	9 In	Insertion Loss (Typ.)	0.62	0.81	1.09	1.54	2.29	dB	0.006
FMCA100376-12	12 In	Insertion Loss (Typ.)	0.76	1.01	1.38	1.99	2.98	dB	0.007
FMCA100376-18	18 In	Insertion Loss (Typ.)	1.04	1.42	1.97	2.88	4.37	dB	0.009
FMCA100376-24	24 In	Insertion Loss (Typ.)	1.32	1.82	2.56	3.77	5.75	dB	0.011

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 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.0065 pounds
 Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.007 lbs [3.18 g]

Cable

Cable Type FM-P047HF
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Tape
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material FEP, Blue
 Jacket Diameter 0.06 in [1.52 mm]
 Repeated Minimum Bend Radius 0.1 in [2.54 mm]

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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Male	SMPS Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Smooth Bore	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Operating Range Temperature-65 to +165 deg C

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

Plotted and Other Data

Notes:

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FMCA100376

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100376

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: FMCA100376-12 = 12 inches long cable
FMCA100376-100cm = 100 cm long cable

VITA 67.3 Smooth Bore Mini SMP Male to SMPS Female Cable FM-P047HF Coax from Fairview Microwave is in-stock and available to ship same-day. 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: [VITA 67.3 Smooth Bore Mini SMP Male to SMPS Female Cable FM-P047HF Coax FMCA100376](#)

URL: <https://www.fairviewmicrowave.com/vita-67.3-smooth-bore-mini-smp-male-to-smps-female-cable-fm-p047hf-coax-fmca100376-p.aspx>

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FMCA100376 CAD Drawing

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