

VITA 67.3 Smooth Bore Mini SMP Male to Smooth Bore Mini SMP Male Cable FM-F086HF Coax



FMCA100379

Configuration

- Connector 1: Smooth Bore Mini SMP Male
- Connector 2: Smooth Bore Mini SMP Male
- Cable Type: FM-F086HF
- Coax Flex Type: Flexible

Features

- Max Frequency 40 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

The Mini SMP male smooth bore to Mini SMP male smooth bore cable using FM-F086HF coax, part number FMCA100379, from Fairview Microwave is in-stock and ships same day. This Fairview Mini SMP to Mini SMP cable assembly has a male to male gender configuration with 50 ohm flexible FM-F086HF coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA100379 Mini SMP male to Mini SMP male cable assembly operates to 40 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		%
Capacitance		29.4 [96.46]		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	
FMCA100379	Custom Lengths Available	Insertion Loss (Typ.)	0.312	0.457	0.675	1.005	1.54	dB/ft	
			1.03	1.5	2.22	3.3	5.06	dB/m	
FMCA100379-6	6 In	Insertion Loss (Typ.)	0.36	0.43	0.54	0.71	0.97	dB	0.011
FMCA100379-9	9 In	Insertion Loss (Typ.)	0.44	0.55	0.71	0.96	1.36	dB	0.014
FMCA100379-12	12 In	Insertion Loss (Typ.)	0.52	0.66	0.88	1.21	1.74	dB	0.017
FMCA100379-18	18 In	Insertion Loss (Typ.)	0.67	0.89	1.22	1.71	2.51	dB	0.024
FMCA100379-24	24 In	Insertion Loss (Typ.)	0.83	1.12	1.55	2.21	3.28	dB	0.03

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: 0.0168 pounds
 Additional Weight per Inch: 0.00109 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.017 lbs [7.71 g]

Cable

Cable Type FM-F086HF
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, 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 0.104 in [2.64 mm]
 One Time Minimum Bend Radius 0.52 in [13.21 mm]

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Connectors

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

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

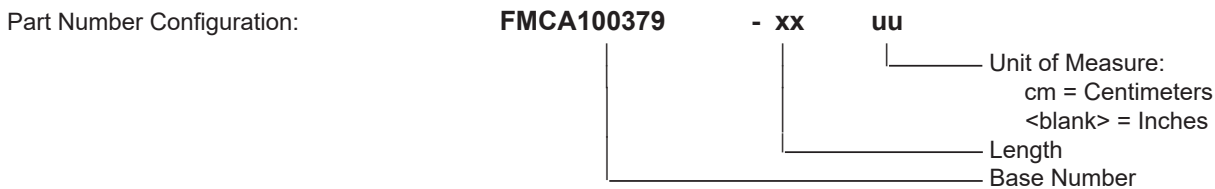
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Typical Performance Data

How to Order



Example: FMCA100379-12 = 12 inches long cable
FMCA100379-100cm = 100 cm long cable

VITA 67.3 Smooth Bore Mini SMP Male to Smooth Bore Mini SMP Male Cable FM-F086HF 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 Smooth Bore Mini SMP Male Cable FM-F086HF Coax FMCA100379](https://www.fairviewmicrowave.com/vita-67.3-smooth-bore-mini-smp-male-to-smooth-bore-mini-smp-male-cable-fm-f086hf-coax-fmca100379)

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