

Mini SMP Female to 2.92mm Male Cable FM-F086HF Coax with LF Solder



FMCA1754LF

Configuration

- Connector 1: Mini SMP Female
- Connector 2: 2.92mm Male
- Cable Type: FM-F086HF
- Coax Flex Type: Flexible

Features

- Max Frequency 26.5 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

The Mini SMP female to 2.92mm male cable using FM-F086HF coax, part number FMCA1754LF, from Fairview Microwave is in-stock and ships same day. This Fairview Mini SMP to 2.92mm cable assembly has a female 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 FMCA1754LF Mini SMP female to 2.92mm male cable assembly operates to 26.5 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		26.5	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	1000	2000	4500	9000	26500	MHz	
FMCA1754LF	Custom Lengths Available	Insertion Loss (Typ.)	0.19	0.28	0.429	0.685	1.181	dB/ft	
			0.63	0.91	1.41	2.25	3.88	dB/m	
FMCA1754LF-12	12 inch	Insertion Loss (Typ.)	0.8	0.88	1.03	1.29	1.79	dB	0.023
FMCA1754LF-18	18 inch	Insertion Loss (Typ.)	0.89	1.02	1.25	1.63	2.38	dB	0.029
FMCA1754LF-24	24 inch	Insertion Loss (Typ.)	0.99	1.16	1.46	1.97	2.97	dB	0.035
FMCA1754LF-36	36 inch	Insertion Loss (Typ.)	1.18	1.44	1.89	2.66	4.15	dB	0.047
FMCA1754LF-48	48 inch	Insertion Loss (Typ.)	1.37	1.71	2.32	3.34	5.33	dB	0.059

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:	0.5 dB
Base Weight:	0.023 pounds
Additional Weight per Inch:	0.00098 pounds

Mechanical Specifications

Cable Assembly

Weight	0.023 lbs [10.43 g]
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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 Female	2.92mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	50 µin minimum
Dielectric Type	PTFE	PCTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Outer Conductor Plating Specification	MIL-G-45204	
Body Material and Plating		Beryllium Copper, Gold over Nickel
Body Plating Specification		50 µin minimum
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 inch
Torque		8 in-lbs 0.9 Nm
Seal Gasket Material		Silicone Rubber

Environmental Specifications

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

Plotted and Other Data

Notes:

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FMCA1754LF

Typical Performance Data

How to Order

Part Number Configuration:

FMCA1754LF **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA1754LF-12 = 12 inches long cable
 FMCA1754LF-100cm = 100 cm long cable

Mini SMP Female to 2.92mm Male Cable FM-F086HF Coax with LF Solder 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: [Mini SMP Female to 2.92mm Male Cable FM-F086HF Coax with LF Solder FMCA1754LF](#)

URL: <https://www.fairviewmicrowave.com/mini-smp-female-to-2.92mm-male-cable-fm-f086hf-coax-with-lf-solder-fm-ca1754lf-p.aspx>

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FMCA1754LF CAD Drawing

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