

Non-Magnetic SMA Male to SMA Male Cable FM-SR086CU-NM Coax



FMCA100395

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: FM-SR086CU-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

The SMA male to SMA male cable using FM-SR086CU-NM coax, part number FMCA100395, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm semi-rigid FM-SR086CU-NM coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA100395 SMA male to SMA male cable assembly operates to 18 GHz.

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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	165			dB

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
FMCA100395	Custom Lengths Available	Insertion Loss (Typ.)	0.195	0.261	0.426	0.636	0.94	dB/ft	
			0.64	0.86	1.4	2.09	3.09	dB/m	
FMCA100395-6	6 inch	Insertion Loss (Typ.)	0.52	0.56	0.64	0.74	0.89	dB	0.011
FMCA100395-12	12 inch	Insertion Loss (Typ.)	0.62	0.69	0.85	1.06	1.36	dB	0.018
FMCA100395-18	18 inch	Insertion Loss (Typ.)	0.72	0.82	1.06	1.38	1.83	dB	0.026
FMCA100395-24	24 inch	Insertion Loss (Typ.)	0.81	0.95	1.28	1.7	2.3	dB	0.033
FMCA100395-36	36 inch	Insertion Loss (Typ.)	1.01	1.21	1.7	2.33	3.24	dB	0.047

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:	0.21 dB
Loss due to Connector 2:	0.21 dB
Base Weight:	0.018 pounds
Additional Weight per Inch:	0.00117 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.018 lbs [8.16 g]

Cable

Cable Type	FM-SR086CU-NM
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Outer Conductor 1 Material and Plating	Copper
One Time Minimum Bend Radius	0.125 in [3.18 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Gold	Gold
Contact Plating Specification	MIL-G-45294	MIL-G-45294
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	ASTM-B-16	ASTM-B-16
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification	ASTM-B-16	ASTM-B-16

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Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100395

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

Example: FMCA100395-12 = 12 inches long cable
FMCA100395-100cm = 100 cm long cable

Non-Magnetic SMA Male to SMA Male Cable FM-SR086CU-NM 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: [Non-Magnetic SMA Male to SMA Male Cable FM-SR086CU-NM Coax FMCA100395](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-sma-male-to-sma-male-cable-fm-sr086cu-nm-coax-fm-ca100395-p.aspx>

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FMCA100395 CAD Drawing
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