

Non-Magnetic 2.92mm Male to RA SMP Female Cable FM-SR047CU-NM Coax

FMCA100390



Configuration

- Connector 1: 2.92mm Male
- Connector 2: SMP Female Right Angle
- Cable Type: FM-SR047CU-NM
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 165 dB
- 69.5% Phase Velocity

Applications

- General Purpose
- Laboratory Use

Description

The 2.92mm male to RA SMP female cable using FM-SR047CU-NM coax, part number FMCA100390, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to SMP cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR047CU-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 FMCA100390 2.92mm male to SMP female cable assembly operates to 12.4 GHz. The right angle SMP interface on the FM-SR047CU-NM cable allows for easier connections in tight spaces.

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		12.4	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	500	1000	2500	5000	12400	MHz	
FMCA100390	Custom Lengths Available	Insertion Loss (Typ.)	0.24	0.34	0.508	0.79	1.26	dB/ft	
			0.79	1.12	1.67	2.6	4.14	dB/m	
FMCA100390-6	6 inch	Insertion Loss (Typ.)	0.27	0.32	0.43	0.59	0.86	dB	0.104
FMCA100390-9	9 inch	Insertion Loss (Typ.)	0.33	0.41	0.55	0.78	1.18	dB	0.105
FMCA100390-12	12 inch	Insertion Loss (Typ.)	0.39	0.49	0.68	0.98	1.49	dB	0.106
FMCA100390-18	18 inch	Insertion Loss (Typ.)	0.51	0.66	0.93	1.38	2.12	dB	0.109
FMCA100390-24	24 inch	Insertion Loss (Typ.)	0.63	0.83	1.19	1.77	2.75	dB	0.111

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: 0.12 dB
 Loss due to Connector 2: 0.03*SQRT(FGHz) dB
 Base Weight: 0.106 pounds
 Additional Weight per Inch: 0.00034 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.106 lbs [48.08 g]

Cable

Cable Type: FM-SR047CU-NM
 Impedance: 50 Ohms
 Inner Conductor Material and Plating: Copper, Silver
 Dielectric Type: PTFE
 Outer Conductor 1 Material and Plating: Copper
 One Time Minimum Bend Radius: 0.05 in [1.27 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	SMP Female Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Copper
Dielectric Type	PEI	
Body Material and Plating	Beryllium Copper, Gold	Bronze, Copper-Tin-Zinc Alloy over Silver
Coupling Nut Material and Plating	Beryllium Copper, Gold	

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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:

FMCA100390 - xx uu

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

Example: FMCA100390-12 = 12 inches long cable
FMCA100390-100cm = 100 cm long cable

Non-Magnetic 2.92mm Male to RA SMP Female Cable FM-SR047CU-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 2.92mm Male to RA SMP Female Cable FM-SR047CU-NM Coax FMCA100390](#)

URL: <https://www.fairviewmicrowave.com/non-magnetic-2.92mm-male-to-ra-smp-female-cable-fm-sr047cu-nm-coax-fm-ca100390-p.aspx>

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FMCA100390 CAD Drawing

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