

2.92mm Female to RA 2.92mm Male
Cable .118 Semi-Rigid Coax



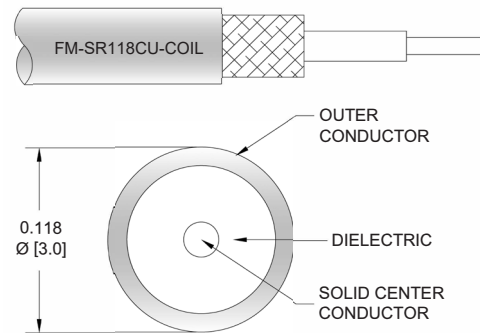
FMCA100189

Configuration

- Connector 1: 2.92mm Female
- Connector 2: 2.92mm Male Right Angle
- Cable Type: FM-SR118CU-COIL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

The 2.92mm female to RA 2.92mm male cable using .118 coax, part number FMCA100189, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a female to male gender configuration with 50 ohm semi-rigid FM-SR118CU-COIL 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 FMCA100189 2.92mm female to 2.92mm male cable assembly operates to 40 GHz. The right angle 2.92mm interface on the FM-SR118CU-COIL 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		40	GHz
VSWR			1.4:1	

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	2500	5000	10000	20000	
FMCA100189	Custom Lengths Available	Insertion Loss (Typ.)	0.175	0.258	0.425	0.625	dB/ft	
			0.58	0.85	1.4	2.06	dB/m	
FMCA100189-6	6 Inch	Insertion Loss (Typ.)	0.39	0.43	0.52	0.62	dB	0.042
FMCA100189-12	12 Inch	Insertion Loss (Typ.)	0.48	0.56	0.73	0.93	dB	0.053
FMCA100189-18	18 Inch	Insertion Loss (Typ.)	0.57	0.69	0.94	1.24	dB	0.065
FMCA100189-24	24 Inch	Insertion Loss (Typ.)	0.65	0.82	1.15	1.55	dB	0.076
FMCA100189-36	36 Inch	Insertion Loss (Typ.)	0.83	1.08	1.58	2.18	dB	0.099

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:	0.2 dB
Base Weight:	0.053 pounds
Additional Weight per Inch:	0.00188 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.053 lbs [24.04 g]

Cable

Cable Type	FM-SR118CU-COIL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE (LD)
Number of Shields	1
Shield Layer 1	Copper
Jacket Material	Tan
One Time Minimum Bend Radius	0.4 in [10.16 mm]

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Female	2.92mm Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel over Copper	Beryllium Copper, Gold over Nickel over Copper
Dielectric Type	PPO	PPO
Body Material and Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

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Environmental Specifications

Operating Range Temperature -40 to +105 deg C

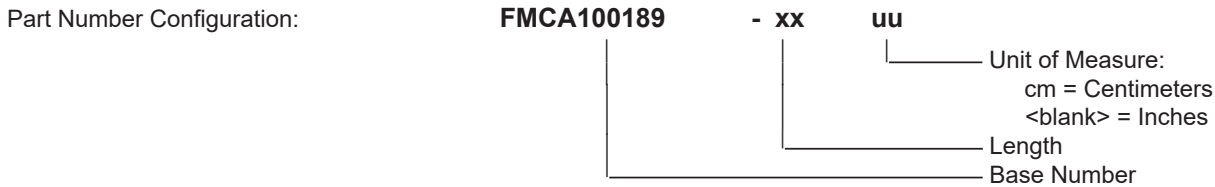
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order



Example: FMCA100189-12 = 12 inches long cable
FMCA100189-100cm = 100 cm long cable

2.92mm Female to RA 2.92mm Male Cable .118 Semi-Rigid 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: [2.92mm Female to RA 2.92mm Male Cable .118 Semi-Rigid Coax FMCA100189](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-female-to-ra-2.92mm-male-cable-.118-coax-fmca100189-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMCA100189 CAD Drawing

2.92mm Female to RA 2.92mm Male Cable .118 Semi-Rigid Coax

