



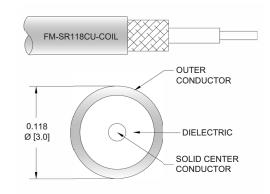
# FMCA100184

### Configuration

Connector 1: 2.92mm Male
Connector 2: 2.92mm Female
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 male to 2.92mm female cable using .118 coax, part number FMCA100184, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a male to female 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 FMCA100184 2.92mm male to 2.92mm female cable assembly operates to 40 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		40	GHz
VSWR			1.4:1	

#### Specifications by Frequency





# FMCA100184

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	2500	5000	10000	20000	MHz	
FMCA100184	Custom Lengths	Insertion Loss (Typ.)	0.175	0.258	0.425	0.625	dB/ft	
TWEATOOTO	Available	Available Tisertion Loss (179.)	0.58	0.85	1.4	2.06	dB/m	
FMCA100184-6	6 Inch	Insertion Loss (Typ.)	0.82	1.13	1.58	2.21	dB	0.049
FMCA100184-12	12 Inch	Insertion Loss (Typ.)	0.91	1.26	1.79	2.52	dB	0.06
FMCA100184-18	18 Inch	Insertion Loss (Typ.)	1	1.39	2.01	2.83	dB	0.072
FMCA100184-24	24 Inch	Insertion Loss (Typ.)	1.09	1.52	2.22	3.14	dB	0.083
FMCA100184-36	36 Inch	Insertion Loss (Typ.)	1.26	1.77	2.64	3.77	dB	0.106

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: 0.4\*SQRT(FGHz) dB
Loss due to Connector 2: 0.1 dB
Base Weight: 0.06 pounds
Additional Weight per Inch: 0.00188 pounds

## **Mechanical Specifications**

## Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.06 lbs [27.22 g]

# Cable

Cable TypeFM-SR118CU-COILImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper, SilverDielectric TypePTFE (LD)Number of Shields1Shield Layer 1CopperJacket MaterialTan

One Time Minimum Bend Radius 0.4 in [10.16 mm]





# FMCA100184

#### **Connectors**

Description	Connector 1	Connector 2			
Туре	2.92mm Male	2.92mm Female			
Impedance	50 Ohms	50 Ohms			
Configuration	Straight	Straight			
Mating Cycles	500	500			
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel over			
		Copper			
Contact Plating Specification	ASTM-B488				
Dielectric Type	PTFE	PPO			
Body Material and Plating	Beryllium Copper, Gold	Stainless Steel, Passivated			
Body Plating Specification	ASTM-B488				
Coupling Nut Material and Plating	Steel				
Torque	8 in-lbs 0.9 Nm				

## **Environmental Specifications**

Operating Range Temperature

-40 to +105 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

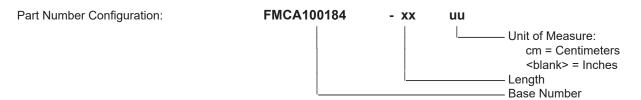




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### **Typical Performance Data**

#### **How to Order**



Example: FMCA100184-12 = 12 inches long cable FMCA100184-100cm = 100 cm long cable

2.92mm Male to 2.92mm Female 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 Male to 2.92mm Female Cable .118 Semi-Rigid Coax FMCA100184

URL: https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-female-cable-.118-coax-fmca100184-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 impliment 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.

