

FMCA100186

Configuration

· Connector 1: 2.92mm Male

Connector 2: 2.92mm Male Right Angle

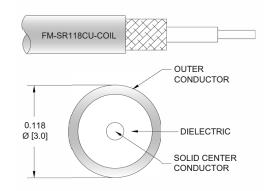
Cable Type: FM-SR118CU-COIL

· Coax Flex Type: Semi-Rigid

Features

Max Frequency 40 GHz

· 500 Mating Cycles



Applications

· General Purpose

· Laboratory Use

Description

The 2.92mm male to RA 2.92mm male cable using .118 coax, part number FMCA100186, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm cable assembly has a male 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 FMCA100186 2.92mm male 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



FMCA100186

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)	
		Frequency	2500	5000	10000	20000	MHz	weight (ms)	
FMCA100186	Custom Lengths	Insertion Loss (Typ.)	0.175	0.258	0.425	0.625	dB/ft		
TWEATOOTOO	Available	1113C111011 2033 (1 yp.)	0.58	0.85	1.4	2.06	dB/m		
FMCA100186-6	6 Inch	Insertion Loss (Typ.)	0.92	1.23	1.68	2.31	dB	0.049	
FMCA100186-12	12 Inch	Insertion Loss (Typ.)	1.01	1.36	1.89	2.62	dB	0.06	
FMCA100186-18	18 Inch	Insertion Loss (Typ.)	1.1	1.49	2.11	2.93	dB	0.072	
FMCA100186-24	24 Inch	Insertion Loss (Typ.)	1.19	1.62	2.32	3.24	dB	0.083	
FMCA100186-36	36 Inch	Insertion Loss (Typ.)	1.36	1.87	2.74	3.87	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: 0.2 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]



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Connectors

Connector 1	Connector 2			
2.92mm Male	2.92mm Male Right Angle			
50 Ohms	50 Ohms			
Straight	Right Angle			
500	500			
Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel over			
	Copper			
ASTM-B488				
PTFE	PPO			
Beryllium Copper, Gold	Stainless Steel, Passivated			
ASTM-B488				
Steel				
8 in-lbs 0.9 Nm				
	2.92mm Male 50 Ohms Straight 500 Beryllium Copper, Gold ASTM-B488 PTFE Beryllium Copper, Gold ASTM-B488 Steel			

Environmental Specifications

Operating Range Temperature

-40 to +105 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

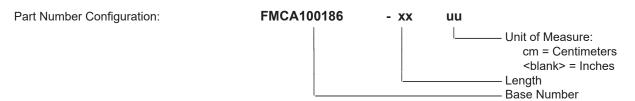




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Typical Performance Data

How to Order



Example: FMCA100186-12 = 12 inches long cable FMCA100186-100cm = 100 cm long cable

2.92mm Male 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 Male to RA 2.92mm Male Cable .118 Semi-Rigid Coax FMCA100186

URL: https://www.fairviewmicrowave.com/2.92mm-male-to-ra-2.92mm-male-cable-.118-coax-fmca100186-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.

