

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

FMCA100185

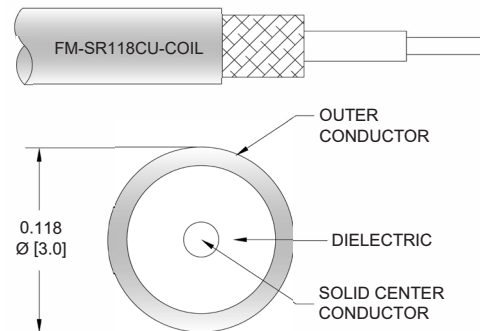


Configuration

- Connector 1: 2.92mm Male
- Connector 2: 2.92mm Female Bulkhead
- 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 bulkhead cable using .118 coax, part number FMCA100185, 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 FMCA100185 2.92mm male to 2.92mm female cable assembly operates to 40 GHz. Our RF cable assembly with 2.92mm bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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	MHz	
FMCA100185	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	
FMCA100185-6	6 Inch	Insertion Loss (Typ.)	0.82	1.13	1.58	2.21	dB	0.049
FMCA100185-12	12 Inch	Insertion Loss (Typ.)	0.91	1.26	1.79	2.52	dB	0.06
FMCA100185-18	18 Inch	Insertion Loss (Typ.)	1	1.39	2.01	2.83	dB	0.072
FMCA100185-24	24 Inch	Insertion Loss (Typ.)	1.09	1.52	2.22	3.14	dB	0.083
FMCA100185-36	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 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]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female Bulkhead
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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FMCA100185

Typical Performance Data

How to Order

Part Number Configuration: **FMCA100185** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: FMCA100185-12 = 12 inches long cable
FMCA100185-100cm = 100 cm long cable

2.92mm Male to 2.92mm Female Bulkhead 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 Bulkhead Cable .118 Semi-Rigid Coax FMCA100185](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-female-bulkhead-cable-.118-coax-fmca100185-p.aspx>

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FMCA100185 CAD Drawing
2.92mm Male to 2.92mm Female Bulkhead Cable .118 Semi-Rigid Coax

