

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

### FMCA100192

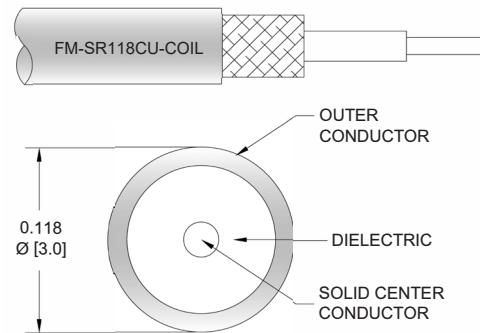


#### Configuration

- Connector 1: 2.92mm Male Right Angle
- 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 RA 2.92mm male to RA 2.92mm male cable using .118 coax, part number FMCA100192, 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 FMCA100192 2.92mm male to 2.92mm male cable assembly operates to 40 GHz. The right angle 2.92mm interfaces on the FM-SR118CU-COIL cable allow 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

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



**FMCA100192**

| Part Number   | Length                   | Description           | F1    | F2    | F3    | F4    | Units | Weight (lbs) |
|---------------|--------------------------|-----------------------|-------|-------|-------|-------|-------|--------------|
|               |                          | Frequency             | 2500  | 5000  | 10000 | 20000 | MHz   |              |
| FMCA100192    | 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  |              |
| FMCA100192-6  | 6 Inch                   | Insertion Loss (Typ.) | 0.49  | 0.53  | 0.62  | 0.72  | dB    | 0.042        |
| FMCA100192-12 | 12 Inch                  | Insertion Loss (Typ.) | 0.58  | 0.66  | 0.83  | 1.03  | dB    | 0.053        |
| FMCA100192-18 | 18 Inch                  | Insertion Loss (Typ.) | 0.67  | 0.79  | 1.04  | 1.34  | dB    | 0.065        |
| FMCA100192-24 | 24 Inch                  | Insertion Loss (Typ.) | 0.75  | 0.92  | 1.25  | 1.65  | dB    | 0.076        |
| FMCA100192-36 | 36 Inch                  | Insertion Loss (Typ.) | 0.93  | 1.18  | 1.68  | 2.28  | 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:    | 0.2 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 Male Right Angle                        | 2.92mm Male Right Angle                        |
| Impedance                    | 50 Ohms  | 50 Ohms  |
| Configuration                | Right Angle                                    | 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                    |

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



### FMCA100192

#### 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

Part Number Configuration: **FMCA100192 - xx uu**

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

Example: FMCA100192-12 = 12 inches long cable  
FMCA100192-100cm = 100 cm long cable

RA 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: [RA 2.92mm Male to RA 2.92mm Male Cable .118 Semi-Rigid Coax FMCA100192](#)

URL: <https://www.fairviewmicrowave.com/ra-2.92mm-male-to-ra-2.92mm-male-cable-.118-coax-fmca100192-p.aspx>

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FMCA100192 CAD Drawing
RA 2.92mm Male to RA 2.92mm Male Cable .118 Semi-Rigid Coax

