

2.92mm Male to 1.85mm Female Cable
RG405 Type .086 Semi-Rigid Coax



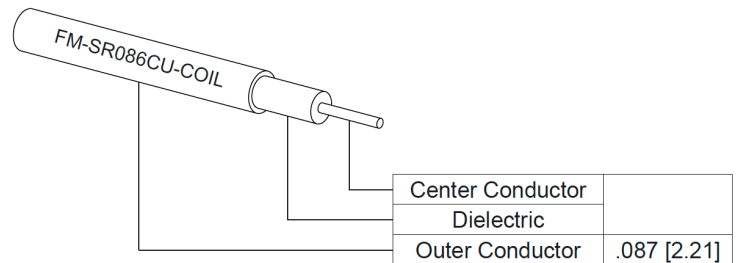
FMCA100196

Configuration

- Connector 1: 2.92mm Male
- Connector 2: 1.85mm Female
- Cable Type: FM-SR086CU-COIL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 40 GHz



Applications

- General Purpose
- Laboratory Use

Description

The 2.92mm male to 1.85mm female cable using RG405 type .086 coax, part number FMCA100196, from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 1.85mm cable assembly has a male to female gender configuration with 50 ohm semi-rigid FM-SR086CU-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 FMCA100196 2.92mm male to 1.85mm 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	
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	2500	5000	10000	20000	
FMCA100196	Custom Lengths Available	Insertion Loss (Typ.)	0.316	0.477	0.8	1.2	dB/ft	
			1.04	1.57	2.63	3.94	dB/m	
FMCA100196-6	6 Inch	Insertion Loss (Typ.)	0.36	0.44	0.6	0.8	dB	0.029
FMCA100196-12	12 Inch	Insertion Loss (Typ.)	0.52	0.68	1	1.4	dB	0.035
FMCA100196-18	18 Inch	Insertion Loss (Typ.)	0.68	0.92	1.4	2	dB	0.042
FMCA100196-24	24 Inch	Insertion Loss (Typ.)	0.84	1.16	1.8	2.6	dB	0.049
FMCA100196-36	36 Inch	Insertion Loss (Typ.)	1.15	1.64	2.6	3.8	dB	0.062

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:	0.1 dB
Base Weight:	0.035 pounds
Additional Weight per Inch:	0.00109 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.035 lbs [15.88 g]

Cable

Cable Type	FM-SR086CU-COIL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Copper
Jacket Material	Tan
Repeated Minimum Bend Radius	0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	1.85mm Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel over Copper
Contact Plating Specification	50 µin minimum	
Dielectric Type	PCTFE	PPO
Body Material and Plating	Beryllium Copper, Gold over Nickel	Stainless Steel, Passivated
Body Plating Specification	50 µin minimum	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

2.92mm Male to 1.85mm Female Cable
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FMCA100196

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100196

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

Example: FMCA100196-12 = 12 inches long cable
FMCA100196-100cm = 100 cm long cable

2.92mm Male to 1.85mm Female Cable RG405 Type .086 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 1.85mm Female Cable RG405 Type .086 Semi-Rigid Coax FMCA100196](https://www.fairviewmicrowave.com/2.92mm-male-to-1.85mm-female-cable-rg405-type-.086-coax-fmca100196-p.aspx)

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