

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



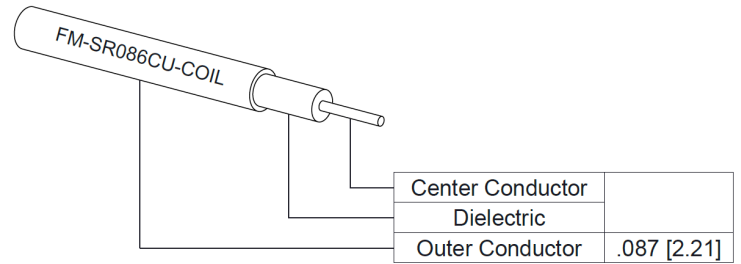
FMCA100193

Configuration

- Connector 1: 1.85mm 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 1.85mm male to 1.85mm female cable using RG405 type .086 coax, part number FMCA100193, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm 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 FMCA100193 1.85mm 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	
FMCA100193	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	
FMCA100193-6	6 Inch	Insertion Loss (Typ.)	0.34	0.46	0.66	0.93	dB	0.03
FMCA100193-12	12 Inch	Insertion Loss (Typ.)	0.5	0.69	1.06	1.53	dB	0.036
FMCA100193-18	18 Inch	Insertion Loss (Typ.)	0.66	0.93	1.46	2.13	dB	0.043
FMCA100193-24	24 Inch	Insertion Loss (Typ.)	0.82	1.17	1.86	2.73	dB	0.05
FMCA100193-36	36 Inch	Insertion Loss (Typ.)	1.13	1.65	2.66	3.93	dB	0.063

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: 0.05*SQRT(FGHz) dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.036 pounds
 Additional Weight per Inch: 0.00109 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.036 lbs [16.33 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	1.85mm Male	1.85mm Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel over Copper
Contact Plating Specification	MIL-G-45204	
Dielectric Type		PPO
Body Material and Plating	Stainless Steel, Gold over Nickel	Stainless Steel, Passivated
Body Plating Specification	MIL-G-45204	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM-A380	
Hex Size	1/4 inch	
Torque	8 in-lbs 0.9 Nm	

Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

Plotted and Other Data

Notes:

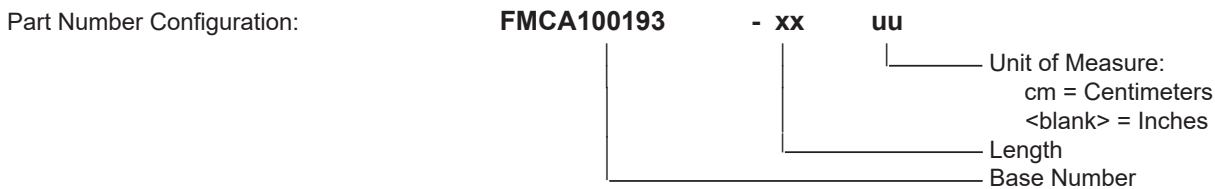
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FMCA100193

Typical Performance Data

How to Order



Example: FMCA100193-12 = 12 inches long cable
FMCA100193-100cm = 100 cm long cable

1.85mm 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: [1.85mm Male to 1.85mm Female Cable RG405 Type .086 Semi-Rigid Coax FMCA100193](https://www.fairviewmicrowave.com/1.85mm-male-to-1.85mm-female-cable-rg405-type-.086-coax-fmca100193-p.aspx)

URL: <https://www.fairviewmicrowave.com/1.85mm-male-to-1.85mm-female-cable-rg405-type-.086-coax-fmca100193-p.aspx>

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FMCA100193 CAD Drawing

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

