

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

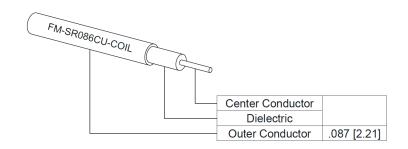
FMCA100194

Configuration

Connector 1: 1.85mm Female
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 female to 1.85mm female cable using RG405 type .086 coax, part number FMCA100194, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 1.85mm cable assembly has a female 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 FMCA100194 1.85mm female 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	MHz	
FMCA100194	Custom Lengths	Insertion Loss (IVb.)	0.316	0.477	0.8	1.2	dB/ft	
TWEATOOTS	Available		1.04	1.57	2.63	3.94	dB/m	
FMCA100194-6	6 Inch	Insertion Loss (Typ.)	0.36	0.44	0.6	0.8	dB	0.037
FMCA100194-12	12 Inch	Insertion Loss (Typ.)	0.52	0.68	1	1.4	dB	0.043
FMCA100194-18	18 Inch	Insertion Loss (Typ.)	0.68	0.92	1.4	2	dB	0.05
FMCA100194-24	24 Inch	Insertion Loss (Typ.)	0.84	1.16	1.8	2.6	dB	0.057
FMCA100194-36	36 Inch	Insertion Loss (Typ.)	1.15	1.64	2.6	3.8	dB	0.07

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: 0.043 pounds
Additional Weight per Inch: 0.00109 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.043 lbs [19.5 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]

Connectors

Description	Connector 1	Connector 2			
Туре	1.85mm Female	1.85mm Female			
Impedance	50 Ohms	50 Ohms			
Configuration	Straight	Straight			
Contact Material and Plating	Beryllium Copper, Gold over Nickel over	Beryllium Copper, Gold over Nickel over			
	Copper	Copper			
Dielectric Type	PPO	PPO			
Body Material and Plating	Stainless Steel, Passivated	Stainless Steel, Passivated			



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Environmental Specifications

Operating Range Temperature

-55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

FMCA100194 - xx uu

Unit of Measure:
cm = Centimeters

chlank> = Inches

Length
Base Number

Example: FMCA100194-12 = 12 inches long cable

FMCA100194-100cm = 100 cm long cable

1.85mm Female 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 Female to 1.85mm Female Cable RG405 Type .086 Semi-Rigid Coax FMCA100194

URL: https://www.fairviewmicrowave.com/1.85mm-female-to-1.85mm-female-cable-rg405-type-.086-coax-fm-ca100194-p.aspx

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