



FMCA100331

Configuration

Connector 1: 1.85mm Male
Connector 2: 2.92mm Male
Cable Type: FM-SR086TB
Coax Flex Type: Formable

Features

- Max Frequency 20 GHz
- · 69.5% Phase Velocity
- · 500 Mating Cycles

Applications

· General Purpose

· Laboratory Use

Description

The 1.85mm male to 2.92mm male cable using FM-SR086TB coax, part number FMCA100331, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 2.92mm cable assembly has a male to male gender configuration with 50 ohm formable FM-SR086TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA100331 1.85mm male to 2.92mm male cable assembly operates to 20 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		20	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency





FMCA100331

Part Number Ler	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
	Length	Frequency	1000	2000	4500	9000	20000	MHz	
FMCA100331	Custom Lengths	Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.2	dB/ft	
TWICATOUSSI	Available	insertion Loss (Typ.)	0.74	1.01	1.67	2.5	3.94	dB/m	
FMCA100331-6	6 In	Insertion Loss (Typ.)	0.2	0.27	0.43	0.62	0.96	dB	0.025
FMCA100331-9	9 In	Insertion Loss (Typ.)	0.25	0.35	0.56	0.81	1.26	dB	0.028
FMCA100331-12	12 ln	Insertion Loss (Typ.)	0.31	0.42	0.68	1	1.56	dB	0.03
FMCA100331-18	18 ln	Insertion Loss (Typ.)	0.42	0.58	0.94	1.38	2.16	dB	0.036
FMCA100331-24	24 In	Insertion Loss (Typ.)	0.53	0.73	1.19	1.76	2.76	dB	0.041

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: 0.04*SQRT(FGHz) dB
Loss due to Connector 2: 0.04*SQRT(FGHz) dB
Base Weight: 0.03 pounds
Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.03 lbs [13.61 g]

Cable

Cable TypeFM-SR086TBImpedance50 OhmsInner Conductor TypeSolidInner Conductor Material and PlatingCopper Clad Steel, SilverDielectric TypePTFE

Number of Shields 1
Outer Conductor 1 Material and Plating Copper, Tin
Repeated Minimum Bend Radius 0.78 in [19.81 mm]





FMCA100331

Connectors

Description	Connector 1	Connector 2		
Туре	1.85mm Male	2.92mm Male		
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Mating Cycles	500	500		
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nicke		
Contact Plating Specification	50 μin minimum	50 μin minimum		
Dielectric Type	PEI	PEI		
Body Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nicke		
Body Plating Specification	50 μin minimum	50 μin minimum		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Plating Specification	ASTM-A582	ASTM-A582		
Hex Size	5/16 inch	5/16 inch		
Torque	8 in-lbs 0.9 Nm	8 in-lbs 0.9 Nm		

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

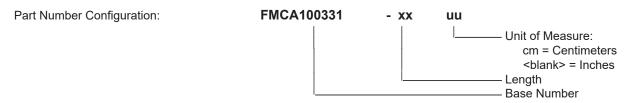




FMCA100331

Typical Performance Data

How to Order



Example: FMCA100331-12 = 12 inches long cable FMCA100331-100cm = 100 cm long cable

1.85mm Male to 2.92mm Male Cable FM-SR086TB 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 ondemand.

For additional information on this product, please click the following link: 1.85mm Male to 2.92mm Male Cable FM-SR086TB Coax FMCA100331

URL: https://www.fairviewmicrowave.com/1.85mm-male-to-2.92mm-male-cable-fm-sr086tb-coax-fmca100331-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

