



FMCA3242

Configuration

Connector 1: 2.92mm Male
Connector 2: 2.92mm Male
Cable Type: FM-SR086TBJ
Coax Flex Type: Formable

Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- · 69.5% Phase Velocity
- · FEP Jacket
- 500 Mating Cycles

Applications

· General Purpose

· Laboratory Use

Description

The 2.92mm male to 2.92mm male cable using FM-SR086TBJ coax, part number FMCA3242, 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 formable FM-SR086TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA3242 2.92mm 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		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
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]





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Operating Voltage (AC)			335	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	20	GHz
Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.2	dB/ft
	0.74	1	1.67	2.49	3.94	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.04xSQRT(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.03 lbs [13.61 g]

Cable

Cable Type
Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Outer Conductor 1 Material and Plating

Jacket Material Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

FM-SR086TBJ

50 Ohms Solid

Copper Clad Steel, Silver

PTFE

Tinned Copper Composite Braid

FEP, Black

0.105 in [2.67 mm] 0.5 in [12.7 mm] 0.787 in [19.99 mm]





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Connectors

Description	Connector 1	Connector 2	
Туре	2.92mm 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 Nickel	
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 Nickel	
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

Operating Range Temperature -55 to +125 deg C

Shock MIL-STD-202, Method 213, Condition I
Vibration MIL-STD-202, Method 204, ConditionD
Thermal Shock MIL-STD-202, Method 107, Condition B

Salt Fog MIL-STD-202, Method 101, Condition B, 5%salt solution

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

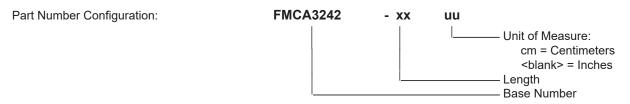




FMCA3242

Typical Performance Data

How to Order



Example: FMCA3242-12 = 12 inches long cable FMCA3242-100cm = 100 cm long cable

2.92mm Male to 2.92mm Male Cable FM-SR086TBJ 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 2.92mm Male Cable FM-SR086TBJ Coax FMCA3242

URL: https://www.fairviewmicrowave.com/2.92mm-male-to-2.92mm-male-cable-fm-sr086tbj-coax-fmca3242-p.aspx

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