

1.85mm Male to 2.92mm Female 4 Hole Flange Cable FM-SR086TBJ Coax

FMCA100349

Configuration

· Connector 1: 1.85mm Male

· Connector 2: 2.92mm Female 4 Hole Flange

Cable Type: FM-SR086TBJCoax Flex Type: Formable

Features

· Max Frequency 20 GHz

· Shielding Effectivity > 100 dB

· 69.5% Phase Velocity

· FEP Jacket

Applications

· General Purpose

· Laboratory Use

Description

The 1.85mm male to 2.92mm female 4 hole flange cable using FM-SR086TBJ coax, part number FMCA100349, from Fairview Microwave is in-stock and ships same day. This Fairview 1.85mm to 2.92mm cable assembly has a male to female 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 FMCA100349 1.85mm male to 2.92mm female cable assembly operates to 20 GHz. Our RF cable assembly with 2.92mm 4 hole flange interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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]
Operating Voltage (AC)			170	Vrms

Specifications by Frequency



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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	20000	MHz	weight (ins)
FMCA100349	Custom Lengths	Insertion Loss (Typ.)	0.225	0.306	0.508	0.759	1.2	dB/ft	
TWCATOUS49	Available		0.74	1.01	1.67	2.5	3.94	dB/m	
FMCA100349-6	6 In	Insertion Loss (Typ.)	0.26	0.31	0.44	0.6	0.88	dB	0.03
FMCA100349-9	9 In	Insertion Loss (Typ.)	0.31	0.39	0.57	0.79	1.18	dB	0.035
FMCA100349-12	12 ln	Insertion Loss (Typ.)	0.37	0.47	0.7	0.98	1.48	dB	0.04
FMCA100349-18	18 ln	Insertion Loss (Typ.)	0.48	0.62	0.95	1.36	2.08	dB	0.051
FMCA100349-24	24 In	Insertion Loss (Typ.)	0.59	0.77	1.21	1.74	2.68	dB	0.061

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: 0.1 dB
Base Weight: 0.04 pounds
Additional Weight per Inch: 0.00167 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.04 lbs [18.14 g]

Cable

Cable Type FM-SR086TBJ
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE

Number of Shields

Outer Conductor 1 Material and Plating Tinned Copper Composite Braid

Jacket MaterialFEP, BlackJacket Diameter0.105 in [2.67 mm]

One Time Minimum Bend Radius

O.5 in [12.7 mm]

Repeated Minimum Bend Radius

0.787 in [19.99 mm]



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Connectors

Description	Connector 1	Connector 2			
Туре	1.85mm Male	2.92mm Female 4 Hole Flange			
Impedance	50 Ohms	50 Ohms			
Configuration	Straight	Straight			
Mating Cycles	500				
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold			
Contact Plating Specification	50 μin minimum	50 μin minimum			
Dielectric Type	PEI	ULTEM			
Outer Conductor Material and Plating		Passivated Stainless Steel			
Body Material and Plating	Beryllium Copper, Gold over Nickel	Stainless Steel, Gold			
Body Plating Specification	50 μin minimum	50 μin minimum			
Coupling Nut Material and Plating	Passivated Stainless Steel				
Coupling Nut Plating Specification	ASTM-A582				
Hex Size	5/16 inch				
Torque	8 in-lbs 0.9 Nm				

Environmental Specifications

Operating Range Temperature

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



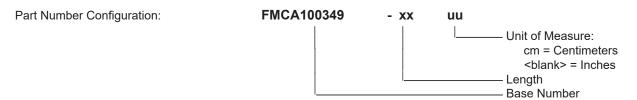
1.85mm Male to 2.92mm Female 4 Hole Flange Cable FM-SR086TBJ Coax



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Typical Performance Data

How to Order



Example: FMCA100349-12 = 12 inches long cable FMCA100349-100cm = 100 cm long cable

1.85mm Male to 2.92mm Female 4 Hole Flange 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: 1.85mm Male to 2.92mm Female 4 Hole Flange Cable FM-SR086TBJ Coax FMCA100349

URL: https://www.fairviewmicrowave.com/1.85mm-male-to-2.92mm-female-4-hole-flange-cable-fm-sr086tbj-coax-fm-ca100349-p.aspx

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