

SMA Female 2 Hole Flange to RA SMP Female Cable FM-SR086TBJ Coax

The SMA female 2 hole flange to RA SMP female cable using FM-SR086TBJ coax, part number FMCA2149, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMP cable assembly has a female 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 FMCA2149 SMA female to SMP female cable assembly operates to 10 GHz. The right angle SMP interface on the FM-SR086TBJ cable allows for easier connections in tight spaces. Our RF cable assembly with SMA 2 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

DescriptionMinTypMaxUnitsFrequency RangeDC10GHzVSWR1.4:11.4:1Velocity of Propagation69.5%RF Shielding100dBGroup Delay1.43 [4.69]ns/ft [ns/m]Capacitance29 [95.14]pF/ft [pF/m]DC Resistance Inner Conductor65.7 [215.55]Ω/1000ft [Ω/Km]DC Resistance Outer Conductor10.2 [33.46]Ω/1000ft [Ω/Km]	-						
VSWR1.4:1Velocity of Propagation69.5RF Shielding100Group Delay1.43 [4.69]ns/ft [ns/m]Capacitance29 [95.14]DC Resistance Inner Conductor65.7 [215.55]Ω/1000ft [Ω/Km	Description	Min	Т	ур	Max	ι	Jnits
Velocity of Propagation69.5%RF Shielding100dBGroup Delay1.43 [4.69]ns/ft [ns/m]Capacitance29 [95.14]pF/ft [pF/m]DC Resistance Inner Conductor65.7 [215.55]Ω/1000ft [Ω/Km]	Frequency Range	DC			10		GHz
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] Ω/1000ft [Ω/Km]	VSWR				1.4:1		
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] Ω/1000ft [Ω/Km]	Velocity of Propagation		6	9.5			%
Capacitance 29 [95.14] pF/ft [pF/m] DC Resistance Inner Conductor 65.7 [215.55] Ω/1000ft [Ω/Km]	RF Shielding	100					dB
DC Resistance Inner Conductor 65.7 [215.55] Ω/1000ft [Ω/Kn	Group Delay		1.43	[4.69]		ns/f	t [ns/m]
	Capacitance		29 [9	95.14]		pF/f	t [pF/m]
DC Resistance Outer Conductor 10.2 [33.46] Ω/1000ft [Ω/Km	DC Resistance Inner Cor	ductor	65.7 [215.55	5]	Ω/100	0ft [Ω/Km]
	DC Resistance Outer Cor	nductor	10.2	33.46		Ω/100	0ft [Ω/Km]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.15 0.49	0.224 0.73	0.346 1.14	0.549 1.8	0.811 2.66	dB

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

Mechanical Specifications

Cable Assembly Length* Diameter

Cable Cable Type 0 in [0 mm] 0.25 in [6.35 mm]

FM-SR086TBJ

FMCA2149 DATA SHEET



Configuration:

- SMA Female 2 Hole Flange
- SMP Female Right Angle
- FM-SR086TBJ

Features:

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day

Applications:

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

an INFINIT^C brand



Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Outer Conductor Material and Plating Jacket Material Jacket Diameter 50 Ohms Solid Copper Clad Steel, Silver PTFE Tinned Copper Composite Braid FEP, Black 0.105 in [2.67 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

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

Connectors

Description	Connector 1	Connector 2
Туре	SMA Female	SMP Female
Mount Method	2 Hole Flange	
Specification	MIL-STD-348	DESC 94008
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Go	old Beryllium Copper, Gold
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material & Plating	Stainless Steel, Gold	d Beryllium Copper, Gold
Body Plating Spec.	MIL-G-45204	MIL-G-45204

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8''$, whichever is greater.

Compliance Certifications (see product page for current document)



Example: FMCA2149-12 = 12 inches long cable FMCA2149-100 cm = 100 cm long cable

301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

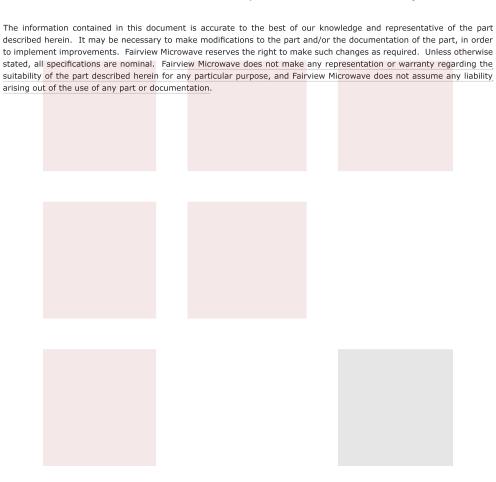




SMA Female 2 Hole Flange to RA SMP Female Cable FM-SR086TBJ Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SMA Female 2 Hole Flange to RA SMP Female Cable FM-SR086TBJ Coax FMCA2149

URL: https://www.fairviewmicrowave.com/sma-female-ra-smp-female-cable-fm-sr086tbj-coax-fmca2149-p.aspx

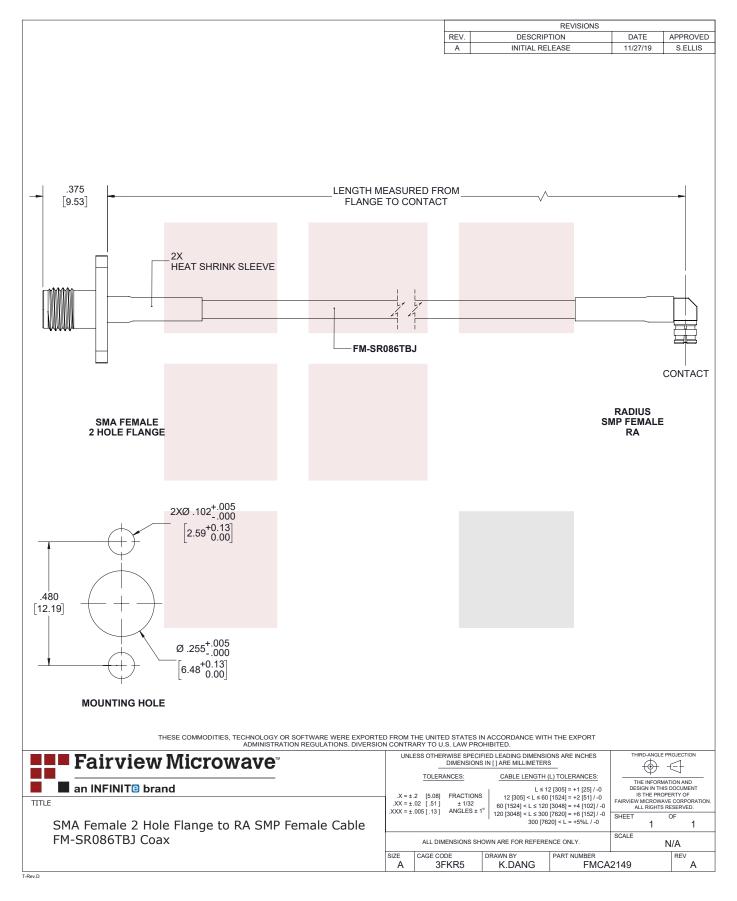


301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

Fairview Microwave



an INFINIT^C brand



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689