



SMA Female Bulkhead to SMA Female Bulkhead Cable FM-SR141TB Coax

The SMA female bulkhead to SMA female bulkhead cable using FM-SR141TB coax, part number FMCA2096, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a female to female gender configuration with 50 ohm formable FM-SR141TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semirigid assemblies since they are hand formable. The FMCA2096 SMA female to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA bulkhead 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	Min	Т	ур	Max	ι	Jnits	
Frequency Range	DC			18		GHz	
VSWR				1.4:1			
Velocity of Propagation		6	9.5			%	
RF Shielding	100					dB	
Group Delay		1.43	[4.69]		ns/f	t [ns/n	า]
Capacitance		29 [9	95.14]		pF/f	t [pF/n	า]
Operating Voltage (AC)				500	١	/rms	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.12	0.16	0.27	0.42	0.65	dB
	0.39	0.52	0.89	1.38	2.13	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

 Length*
 0 in [0 mm]

 Diameter
 0.433 in [11 mm]

Cable

Cable Type FM-SR141TB Impedance 50 Ohms Inner Conductor Type Solid



Configuration:

- SMA Female Bulkhead
- SMA Female Bulkhead
- FM-SR141TB

Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- 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

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Inner Conductor Material and Plating

Dielectric Type

Outer Conductor Material and Plating

Outer Conductor Diameter

Copper, Silver

PTFE

Tinned Copper Composite Braid

0.141 in [3.58 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

0.315 in [8 mm] 1.57 in [39.88 mm]

Connectors

Description	Connector 1	Connector 2
Туре	SMA Female	SMA Female
Mount Method	Bulkhead	Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Go	ld Beryllium Copper, Gold
Contact Plating Spec.	50μ in. minimum	50μ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Spec.	30μ in. minimum	30μ in. minimum

Mechanical Specification Notes:

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2096 - xx uu | cm = Centimeters | chlank> = Inches | Length

Example: FMCA2096-12 = 12 inches long cable

FMCA2096-100cm = 100 cm long cable

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REV 1.0 Page 2 of 4

^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.





SMA Female Bulkhead to SMA Female Bulkhead Cable FM-SR141TB 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 Bulkhead to SMA Female Bulkhead Cable FM-SR141TB Coax FMCA2096

URL: https://www.fairviewmicrowave.com/sma-female-sma-female-cable-fm-sr141tb-coax-fmca2096-p.aspx







