

# FMCA2136 DATA SHEET

# RA SMA Male to N Female Bulkhead Cable FM-SR141TBJ Coax with LF Solder

The RA SMA male to type N female bulkhead cable using FM-SR141TBJ coax, part number FMCA2136, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to female gender configuration with 50 ohm formable FM-SR141TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semirigid assemblies since they are hand formable. The FMCA2136 SMA male to type N female cable assembly operates to 10 GHz. The right angle SMA interface on the FM-SR141TBJ cable allows for easier connections in tight spaces. Our RF cable assembly with type N 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			10		GHz
VSWR				1.4:1		
Velocity of Propagation		-	70			%
RF Shielding	100					dB
Group Delay		1.43	[4.69]	]	ns/f	t [ns/m]
Capacitance		29 [9	95.14]		pF/f	t [pF/m]

### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.082	0.124	0.198	0.32	0.481	dB
	0.27	0.41	0.65	1.05	1.58	

#### **Electrical Specification Notes:**

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

### **Mechanical Specifications**

### **Cable Assembly**

Length\* 0 in [0 mm]
Diameter 0.866 in [22 mm]

### Cable

Cable Type Impedance Inner Conductor Type FM-SR141TBJ 50 Ohms Solid



# **Configuration:**

- SMA Male Right Angle
- N Female Bulkhead
- FM-SR141TBJ

## Features:

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 70% 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

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Inner Conductor Material and Plating

Dielectric Type

Outer Conductor Material and Plating

Jacket Material Jacket Diameter Copper Clad Steel, Silver PTFE

Tinned Copper Composite Braid FEP, Black

0.161 in [4.09 mm]

One Time Minimum Bend Radius Repeated Minimum Bend Radius

0.315 in [8 mm] 1.575 in [40.01 mm]

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	SMA Male	N Female	
Mount Method		Bulkhead	
Impedance	50 Ohms	50 Ohms	
Contact Material & Plating	Brass, Gold	Phosphor Bronze, Gold	
Dielectric Type	PTFE	PTFE	
Body Material & Plating	Brass, Gold	Brass, Nickel	
Coupling Nut Material & Pla	ting Passivated Stainless S	Steel	
Hex Size	5/16 in.		
Torque	8 in-lbs 0.9 Nm		

Mechanical Specification Notes:

# **Compliance Certifications** (see product page for current document)

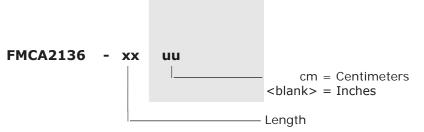
### **Plotted and Other Data**

Notes:

Values at 25°C, sea level.

# **How to Order**

Part Number Configuration:



Example: FMCA2136-12 = 12 inches long cable

FMCA2136-100cm = 100 cm long cable

<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





RA SMA Male to N Female Bulkhead Cable FM-SR141TBJ Coax with LF Solder 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: RA SMA Male to N Female Bulkhead Cable FM-SR141TBJ Coax with LF Solder FMCA2136

URL: https://www.fairviewmicrowave.com/ra-sma-male-n-female-cable-fm-sr141tbj-coax-fmca2136-p.aspx

