

FMCA2124-36 DATA SHEET

RA SMA Male to RA SMA Male Cable FM-SR141TBJ Coax in 36 Inch with LF Solder

The RA SMA male to RA SMA male 36 inch cable using FM-SR141TBJ coax, part number FMCA2124-36, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm formable FM-SR141TBJ coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA2124-36 SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interfaces on the FM-SR141TBJ cable allow for easier connections in tight spaces.

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	Inits
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 [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.)	0.65	0.77	0.99	1.36	1.84	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 36 in [914.4 mm]
Diameter 0.315 in [8 mm]

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Outer Conductor Material and Plating Jacket Material 0.315 in [8 mm]

FEP, Black

FM-SR141TBJ 50 Ohms Solid Copper Clad Steel, Silver PTFE Tinned Copper Composite Braid

Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- 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

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





Jacket Diameter 0.161 in [4.09 mm]

One Time Minimum Bend Radius 0.315 in [8 mm]
Repeated Minimum Bend Radius 1.575 in [40.01 mm]

Connectors

Description	Connector 1			Connector 2			
Туре		SMA Ma	ale	SMA Male			
Impedance		50 Ohr	ns		50 Ohms		
Contact Material & Plating		Brass, G	old		Brass, Gol	Brass, Gold	
Dielectric Type	PTFE				PTFE		
Body Material & Plating		Brass, Gold			Brass, Gold		
Coupling Nut Material & Plating		Passivated Stainless Steel			Passivated Stainless Steel		
Hex Size		5/16 in.			5/16 in.		
Torque		8 in-lbs 0.	9 Nm		8 in-lbs 0.9	Nm	

Mechanical Specification Notes:

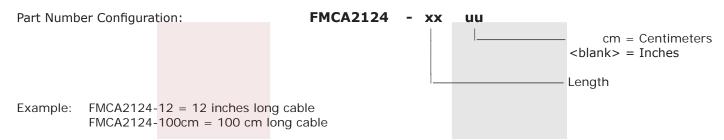
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

How to Order



RA SMA Male to RA SMA Male Cable FM-SR141TBJ Coax in 36 Inch 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 RA SMA Male Cable FM-SR141TBJ Coax in 36 Inch with LF Solder FMCA2124-36

URL: https://www.fairviewmicrowave.com/ra-sma-male-ra-sma-male-cable-fm-sr141tbj-coax-fmca2124-36-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

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

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





