



RA SMA Male to RA N Male Cable FM-SR141TB Coax

The RA SMA male to RA type N male cable using FM-SR141TB coax, part number FMCA2147, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a male to male gender configuration with 50 ohm formable FM-SR141TB coax. Fairview Microwave's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. The FMCA2147 SMA male to type N male cable assembly operates to 10 GHz. The right angle SMA and right angle type N interfaces on the FM-SR141TB 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	Ту	p Max	Units
Frequency Range	DC		10	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 [9	5.14]	pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Typ.)	0.08	0.11	0.18	0.28	0.45	dB
	0.26	0.36	0.59	0.92	1.48	

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* 0 in [0 mm] Diameter 0.79 in [20.07 mm]

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Outer Conductor Material and Plating

Outer Conductor Diameter

FM-SR141TB 50 Ohms Solid Copper, Silver **PTFE**

Tinned Copper Composite Braid 0.141 in [3.58 mm]



Configuration:

- SMA Male Right Angle
- N Male Right Angle
- FM-SR141TB

Features:

- Max Frequency 10 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
- May be formed more than once without damaging the outer conductor
- High RF Shielding > 100 dB
- 100% Hi-pot and continuity
- 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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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 Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Gold	Brass, Nickel
Coupling Nut Material & Plat	ing Passivated Stainless Stee	el Brass, Nickel
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

RA SMA Male to RA N Male 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: RA SMA Male to RA N Male Cable FM-SR141TB Coax FMCA2147

URL: https://www.fairviewmicrowave.com/ra-sma-male-ra-n-male-cable-fm-sr141tb-coax-fmca2147-p.aspx

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





