

## RA SMA Male to RA SMA Male Cable Tinned Aluminum RG405 Type .086 Coax in 100CM Length

The RA SMA male to RA SMA male 100 cm cable using Tinned Aluminum RG405 type .086 coax, part number FMCA3007-100CM, 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 semi-rigid FM-SR086ALTN-STR coax. Fairview Microwave's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. The FMCA3007-100CM SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interfaces on the FM-SR086ALTN-STR 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	Typ	Max	Units
Frequency Range	DC		12.4	GHz
VSWR			1.5:1	
Dielectric Withstanding Voltage (AC)			750	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2.5	5	12.4		GHz
Insertion Loss (Typ.)	1.16	1.47	2	3.46		dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax 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*	39.37 in [100 cm]
Weight	0.057 lbs [25.85 g]

#### Cable

Cable Type	FM-SR086ALTN-STR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Aluminum



### Configuration:

- SMA Male Right Angle
- SMA Male Right Angle
- FM-SR086ALTN-STR

### Features:

- Max Frequency 12.4 GHz

### Applications:

- General Purpose
- Laboratory Use

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, 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
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Spec.	100μ in. minimum	100μ in. minimum
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs 0.57 Nm	5 in-lbs 0.57 Nm

**Environmental Specifications**
**Temperature**

Operating Range -55 to +125 deg C

**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:

**FMCA3007 - xx uu**

cm = Centimeters  
<blank> = Inches

Length

Example: FMCA3007-12 = 12 inches long cable  
FMCA3007-100cm = 100 cm long cable

RA SMA Male to RA SMA Male Cable Tinned Aluminum RG405 Type .086 Coax in 100CM Length from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave 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 Tinned Aluminum RG405 Type .086 Coax in 100CM Length FMCA3007-100CM](https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-rg405-type-.086-coax-fmca3007-100cm-p.aspx)

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