

**Test SMA Male to RA SMA Male Cable FM160FLEX  
 Coax and RoHS Compliant**

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Return Loss	-15.56			dB
Velocity of Propagation		78		%
RF Shielding	90			dB
Capacitance		26 [85.3]		pF/ft [pF/m]
Inductance		66 [216.54]		uH/ft [uH/m]

**Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	1	3	6	12	18	GHz
Insertion Loss (Max.)	0.12	0.22	0.32	0.48	0.6	dB/ft
	[0.39]	[0.72]	[1.05]	[1.57]	[1.97]	dB/m]
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	
Power Handling (Max.)	1.07	620	420	290	200	KW

**Mechanical Specifications**

**Cable Assembly**

Diameter	0.75 in [19.05 mm]
Weight	0.13 lbs [58.97 g]
One Time Minimum Bend Radius	0.8 in [20.32 mm]
Repeated Minimum Bend Radius	0.24 in [6.1 mm]
Typical Flex Cycles	10,000

**Cable**

Cable Type	FM-160FLEX
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Tape
Shield Layer 3	Silver Plated Copper
Jacket Material	ETFE, Gray
Jacket Diameter	0.16 in [4.06 mm]



**Configuration:**

- SMA Male
- SMA Male Right Angle
- FM-160FLEX

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**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Specification	MIL-STD-348	MIL-PRF-39012
Impedance	50 Ohms	50 Ohms
Connection Method	Standard	Standard
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50µ in. minimum	50µ in. minimum
Dielectric Type	PTFE	PTFE
Coupling Nut Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Spec.	SAE-AMS-2700	SAE-AMS-2700
Hex Size	5/16 Inch	5/16 Inch
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	SAE-AMS-2700	SAE-AMS-2700

**Environmental Specifications**

**Temperature**

Operating Range  
 Storage Range

-65 to +165 deg C  
 -65 to +200 deg C

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant

Yes

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC0204914 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC0204914-12 = 12 inches long cable  
 FMC0204914-100cm = 100 cm long cable

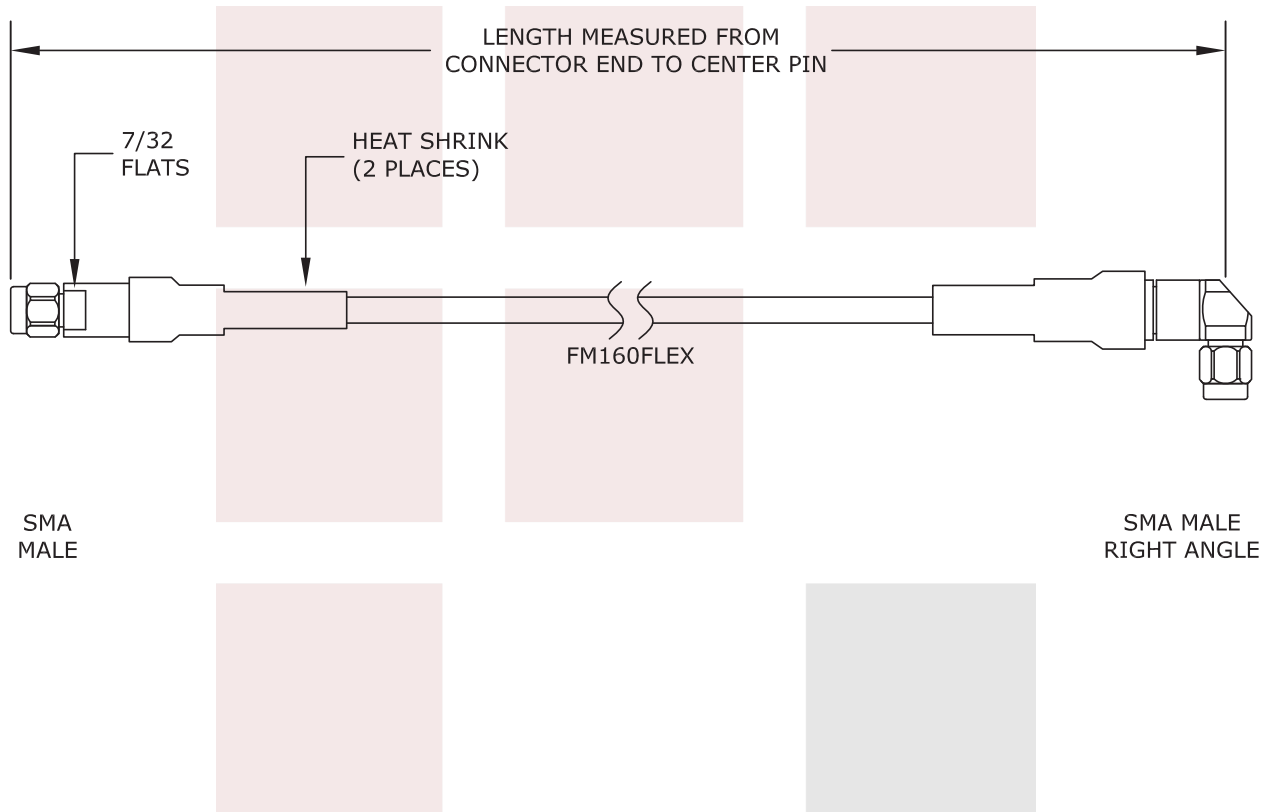
Test SMA Male to RA SMA Male Cable FM160FLEX Coax and RoHS Compliant from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Test SMA Male to RA SMA Male Cable FM160FLEX Coax and RoHS Compliant FMC0204914](#)

URL: <http://www.fairviewmicrowave.com/sma-male-ra-sma-male-cable-fm160flex-coax-fmc0204914-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.





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TITLE Test SMA Male to RA SMA Male Cable FM160FLEX Coax and RoHS Compliant		DWG NO <b>FMC0204914</b>		CAGE CODE <b>3FKR5</b>	
		CAD FILE 070915	SHEET	SCALE N/A	SIZE A