

## .047 Semi-Rigid Coax Cable with a Tin-Lead Plated Aluminum Outer Conductor in Coiled Sections

.020 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. This form factor is widely used in the RF industry and many connector series and configurations are available for this cable. Because of the solid copper wall design the cable can be formed using proper tooling with a minimum inside bend radius of .05 inches.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		20	GHz
Impedance		50		Ohms
DWV (AC)			2,000	Vrms

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	41 134.51	130 426.51	190 623.36			dB/100ft dB/100m
Power In (CW), Max	32	9	6.5			Watts

### Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver	0.011 in [0.28 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.037 in [0.94 mm]
Outer Conductor	Aluminum, Tin-Lead	0.047 in [1.19 mm]

### Environmental Specifications

#### Temperature

Operating Range -55 to +100 deg C

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

RoHS Compliant Yes  
 REACH Compliant 12/17/2014

### Plotted and Other Data

Notes:

### Configuration:

- Semi-Rigid Cable

### Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Aluminum Tinned Outer Conductor
- Operating to 20 GHz
- Minimum inside bend radius of .05 inches
- ROHS compliant

### Applications:

- RF and Microwave Cable Assemblies to 20 GHz
- Preformed cable assemblies to insure fit and layout
- Test Equipment port jumpers

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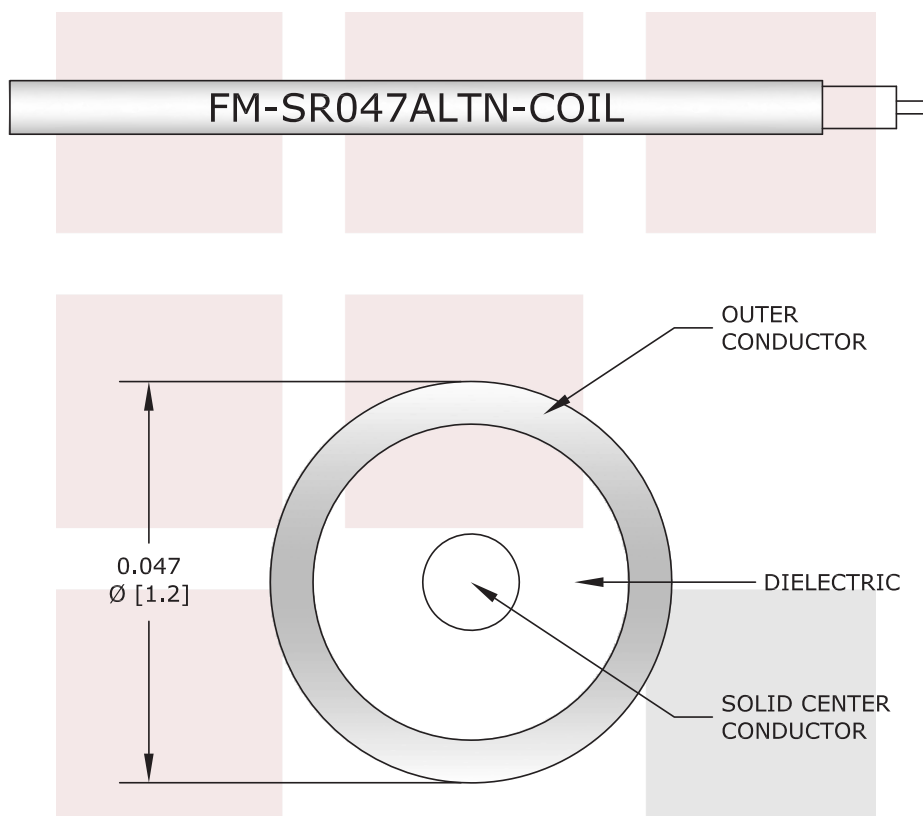
.047 Semi-Rigid Coax Cable with a Tin-Lead Plated Aluminum Outer Conductor in Coiled Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [.047 Semi-Rigid Coax Cable with a Tin-Lead Plated Aluminum Outer Conductor in Coiled Sections FM-SR047ALTN-COIL](#)

URL: <http://www.fairviewmicrowave.com/.047-semi-rigid-coax-cable-tin-lead-plated-aluminum-fm-sr047altn-coil-p.aspx>

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TITLE .047 Semi-Rigid Coax Cable with a Tin-Lead Plated Aluminum Outer Conductor in Coiled Sections	DWG NO FM-SR047ALTN-COIL		CAGE CODE 3FKR5		
	CAD FILE 012716	SHEET	SCALE N/A	SIZE A	2233