

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

.047 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 | 0.047 in [1.19 mm] |

Environmental Specifications

Temperature

Operating Range -55 to +100 deg C

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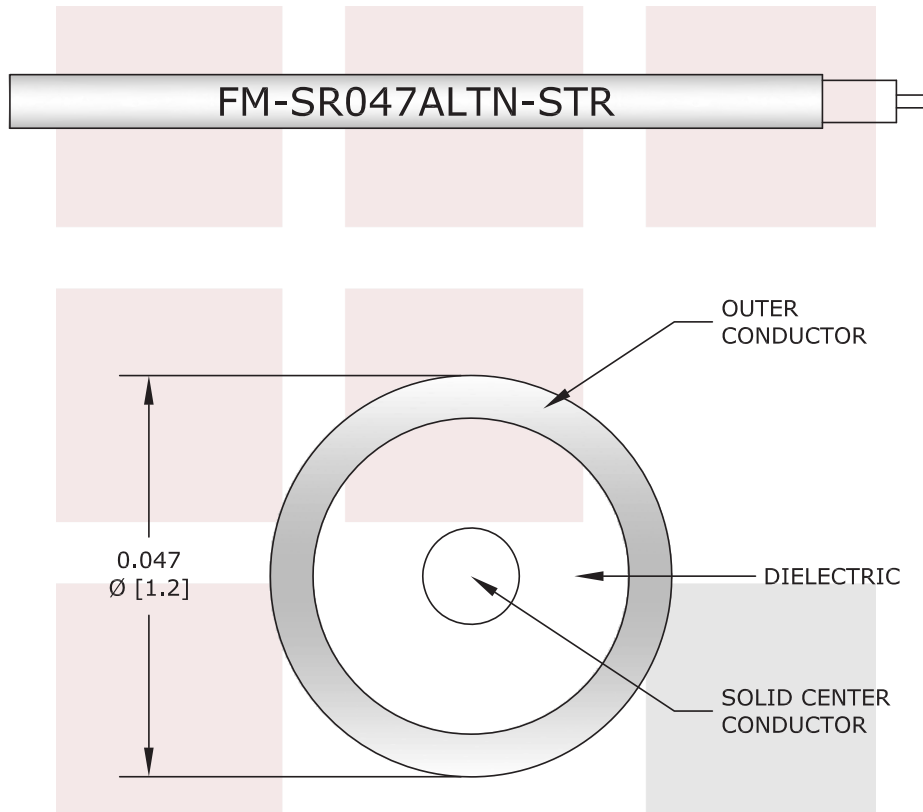
.047 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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

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

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