

RG401 Type .250 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections

.250 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. 0.250 cables sometimes referred to as RG401 based on the mil specification for semi-rigid cable of this diameter has a maximum operating frequency of 20 GHz. 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 .25 inches.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		20	GHz
Impedance		50		Ohms
DWV (AC)			7,500	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	8 26.25	34 111.55	49 160.76			dB/100ft dB/100m
Power In (CW), Typ	1,400	350	200			Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.5 in [12.7 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, Silver	0.064 in [1.63 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.209 in [5.31 mm]
Outer Conductor	Aluminum, Tin	0.25 in [6.35 mm]

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Configuration:

- Semi-Rigid Cable
- 0 Shield(s)

Features:

- Silver Plated Copper Clad Steel center conductor
- PTFE dielectric material
- Aluminum Tinned Outer Conductor
- Operating to 20 GHz
- Minimum inside bend radius of .25 inches
- ROHS compliant

Applications:

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

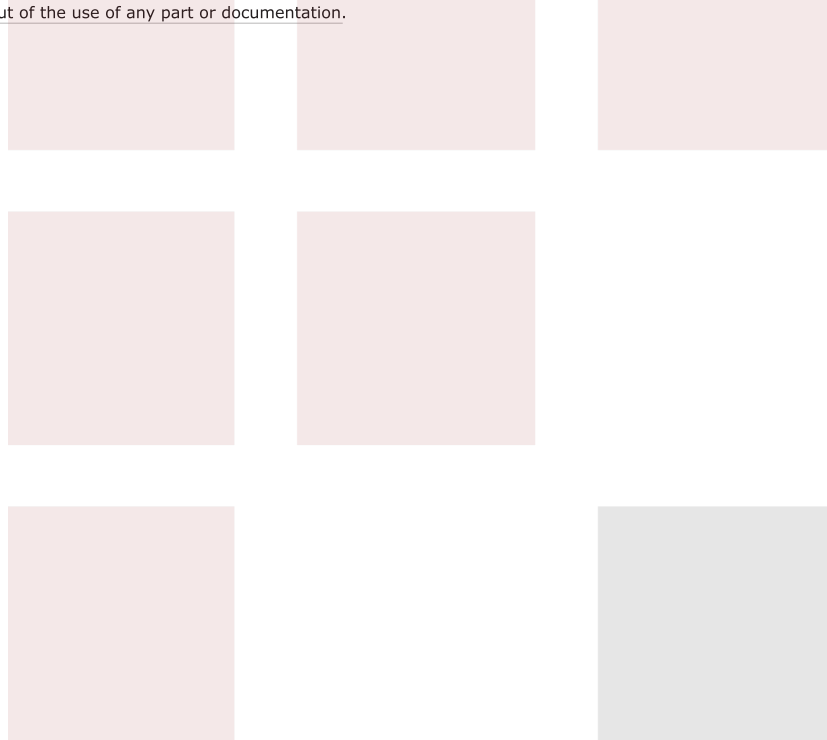
Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

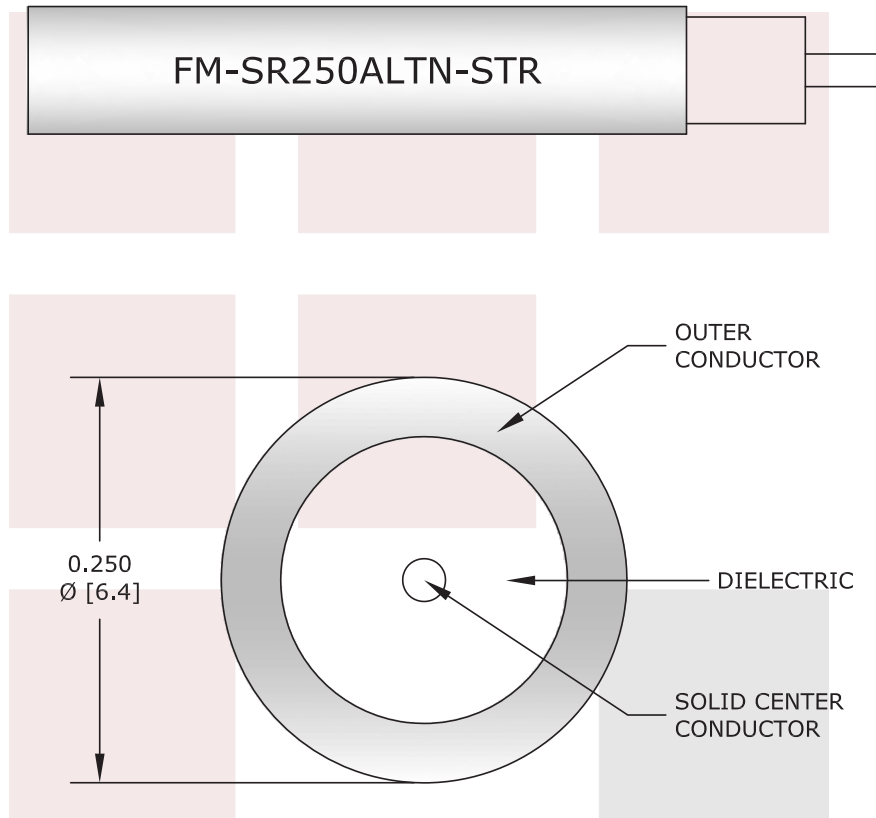
RG401 Type .250 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG401 Type .250 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections FM-SR250ALTN-STR](#)

URL: <https://www.fairviewmicrowave.com/rg401-type-.250-semi-rigid-coax-cable-tin-plated-aluminum-fm-sr250altn-str-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.





FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE RG401 Type .250 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections		DWG NO FM-SR250ALTN-STR	CAGE CODE 3FKR5		
CAD FILE	012716	SHEET	SCALE	N/A	SIZE A 2233