

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 in [0 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

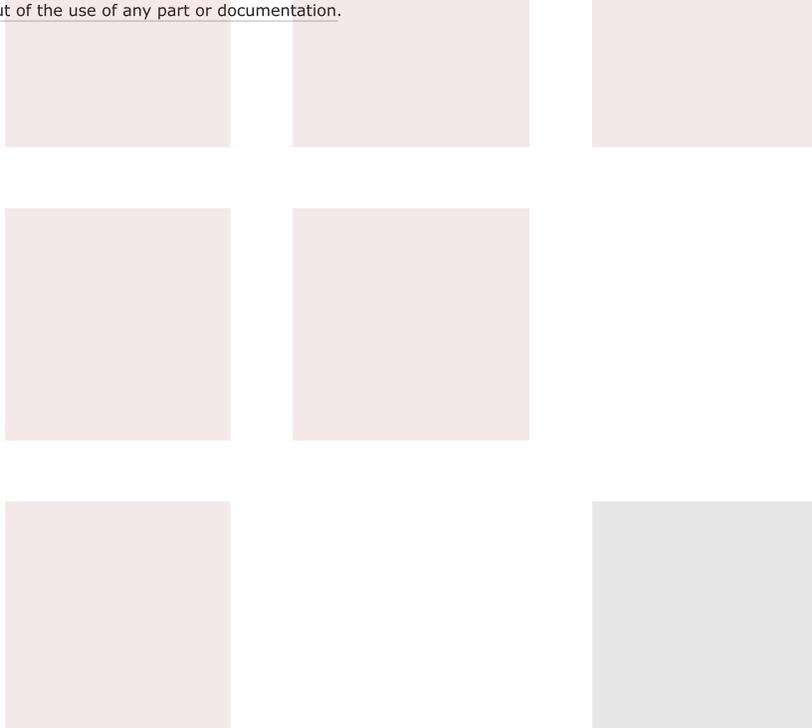
Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

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 millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

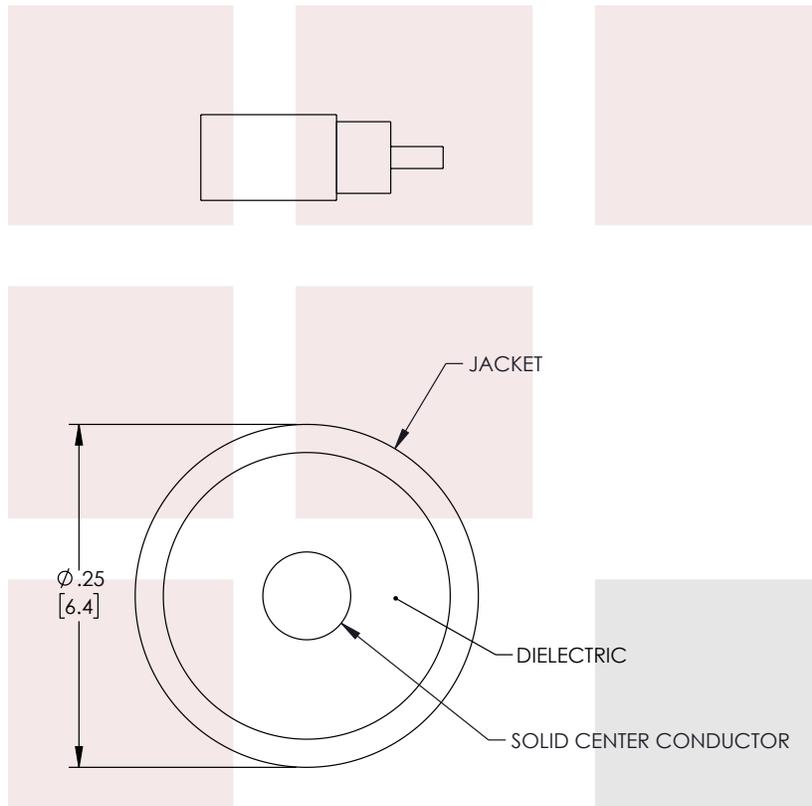
Click the following link to obtain additional part information: [RG401 Type .250 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections FM-SR250ALTN-ST-BULK](#)

URL: <https://www.fairviewmicrowave.com/rg401-type-.250-semi-rigid-coax-cable-tin-plated-aluminum-fm-sr250altn-st-bulk-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/24/2022	AGANWANI



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<p>Fairview Microwave an INFINIT[®] brand</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p>		<p>THIRD-ANGLE PROJECTION</p>	
	<p>TOLERANCES:</p> <p>.X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13]</p>		<p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0</p>	
<p>TITLE</p> <p>RG401 Type .250 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections</p>			<p>SHEET 1 OF 1</p>	
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>			<p>SCALE N/A</p>	
<p>SIZE A</p>	<p>CAGE CODE 3FKR5</p>	<p>DRAWN BY DZINN</p>	<p>ITEM NO. FM-SR250ALTN-ST-BULK</p>	<p>REV A</p>

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