

**RG401 Type .250 Semi-Rigid Coax Cable with a Bare Copper 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 .375 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   | 7.5<br>24.61 | 33<br>108.27 | 48<br>157.48 |    |    | dB/100ft<br>dB/100m |
| Power In (CW), Max | 1,400        | 350          | 200          |    |    | Watts               |

**Mechanical Specifications**

Min. Bend Radius (Installation) 0.375 in [9.53 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 | Copper, Bare         | 0.25 in [6.35 mm]  |
| Jacket          | Tan                  |                    |

**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 .375 inches
- ROHS compliant

**Applications:**

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

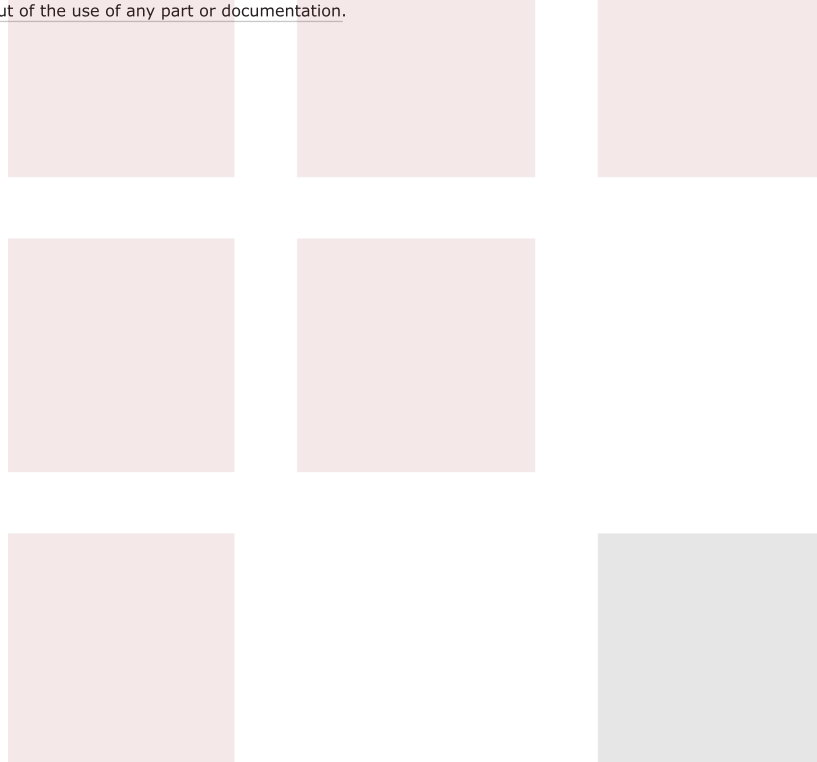
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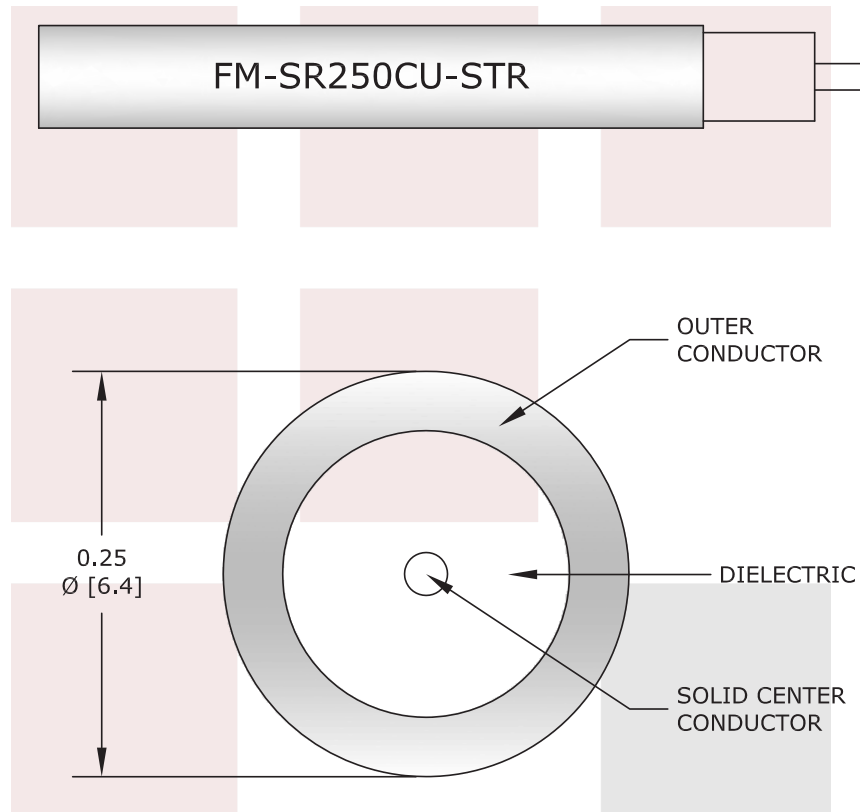
RG401 Type .250 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RG401 Type .250 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections FM-SR250CU-STR](#)

URL: <https://www.fairviewmicrowave.com/rg401-type-.250-semi-rigid-coax-cable-copper-fm-sr250cu-str-p.aspx>

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|--|----------|---|-------|--------------------|------|
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| TITLE<br>RG401 Type .250 Semi-Rigid Coax Cable with a Bare Copper Outer Conductor in Straight Sections | DWG NO   | FM-SR250CU-STR  |       | CAGE CODE<br>3FKR5 |      |
|  | CAD FILE | 012716  | SHEET | SCALE              | N/A  |
|  |          |   |       | SIZE               | A    |
|  |          |   |       |                    | 2233 |