

RG402 Type .141 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections

.141 diameter semi-rigid coaxial cable is the cable of choice for many RF and Microwave engineers. 0.141 cables sometimes referred to as RG402 based on the mil specification for semi-rigid cable of this diameter has a maximum operating frequency of 36 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 1.25 inches.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		36	GHz
Impedance		50		Ohms
DWV (AC)			5,000	Vrms

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	1	10	20			GHz
Attenuation, Typ	13 42.65	46 150.92	71 232.94			dB/100ft dB/100m
Power In (CW), Max	450	120	70			Watts

Mechanical Specifications

Min. Bend Radius (Installation) 0.125 in [3.18 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.118 in [3 mm]
Outer Conductor	Aluminum, Tin	0 in [0 mm]
Jacket	Silver	[]

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 36 GHz
- Minimum inside bend radius of 1.25 inches
- ROHS compliant

Applications:

- RF and Microwave Cable Assemblies to 36 GHz
- Preformed cable assemblies to insure fit and layout
- Test Equipment port jumpers

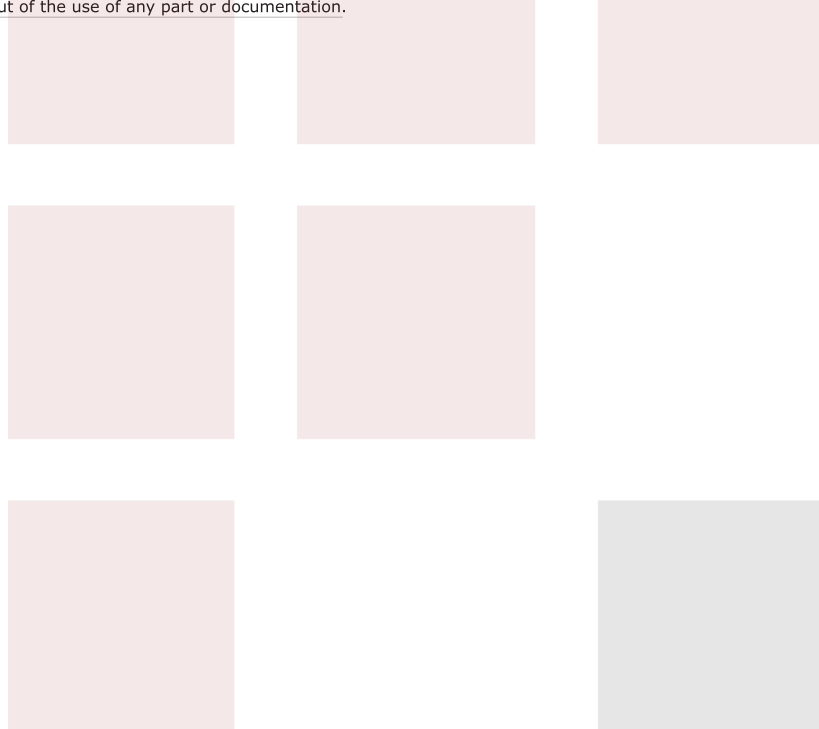
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RG402 Type .141 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

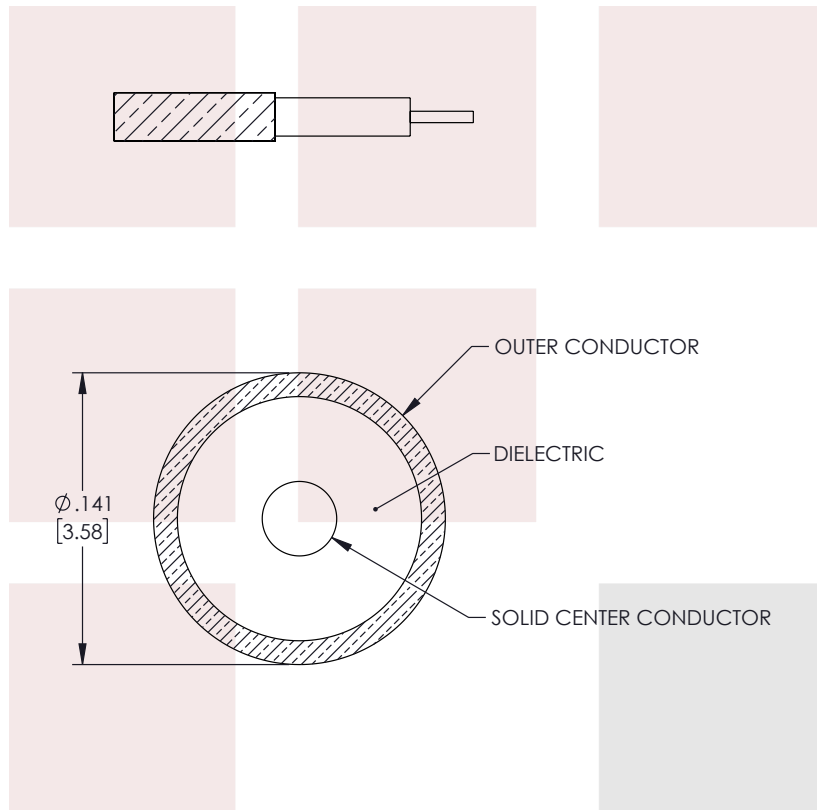
Click the following link to obtain additional part information: [RG402 Type .141 Semi-Rigid Coax Cable with a Tin Plated Aluminum Outer Conductor in Straight Sections FM-SR141ALTN-ST-BULK](https://www.fairviewmicrowave.com/rg402-type-.141-semi-rigid-coax-cable-tin-plated-aluminum-fm-sr141altn-st-bulk-p.aspx)

URL: <https://www.fairviewmicrowave.com/rg402-type-.141-semi-rigid-coax-cable-tin-plated-aluminum-fm-sr141altn-st-bulk-p.aspx>

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



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TITLE

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

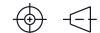
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	DZINN	FM-SR141ALTN-ST-BULK	A

T-Rev.D