

**RG316-DS Flexible Coax Cable Tan FEP Jacket**
**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Velocity of Propagation		96.5		%
Shielding Effectiveness	85			dB
Operating Voltage (AC)			1,200	Vrms
Inner Conductor DC Resist.			83.82	Ohms/1000ft
Outer Conductor DC Resist.			5.33	Ohms/1000ft
Nominal Capacitance		28.96 [95.01]		pF/ft [pF/m]
Insulation Resistance	304.8			MOhms/1Kft


**Configuration:**

- Flexible Cable
- 2 Shield(s)

**Performance by Frequency Band**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	2	3	GHz
Attenuation, Max	10.97 35.99	20.97 68.8	37.95 124.51	45.05 147.8	57.94 190.09	dB/100ft dB/100m
Attenuation, Typ	8.29 27.2	17.5 57.41	29 95.14	39.41 129.3	53.55 175.69	dB/100ft dB/100m
Power In (CW), Max	375	185	120	85	65	Watts

**Mechanical Specifications**

Diameter	0.114 in [2.9 mm]
Weight	0.015 lbs/ft [0.02 Kg/m]
Min. Bend Radius (Installation)	0.59 in [14.99 mm]
Min. Bend Radius (Repeated)	1.57 in [39.88 mm]

**Construction Specifications**

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.02 in [0.51 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.06 in [1.52 mm]
First Shield	Silver Plated Copper Braid	
Second Shield	Silver Plated Copper Braid	0.094 in [2.39 mm]
Jacket	FEP, Tan	0.114 in [2.9 mm]

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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Environmental Specifications****Temperature**

Operating Range

-55 to 200 deg C

Storage Range

0 to 40 deg C

**Compliance Certifications** (see [product page](#) for current document)**Plotted and Other Data**

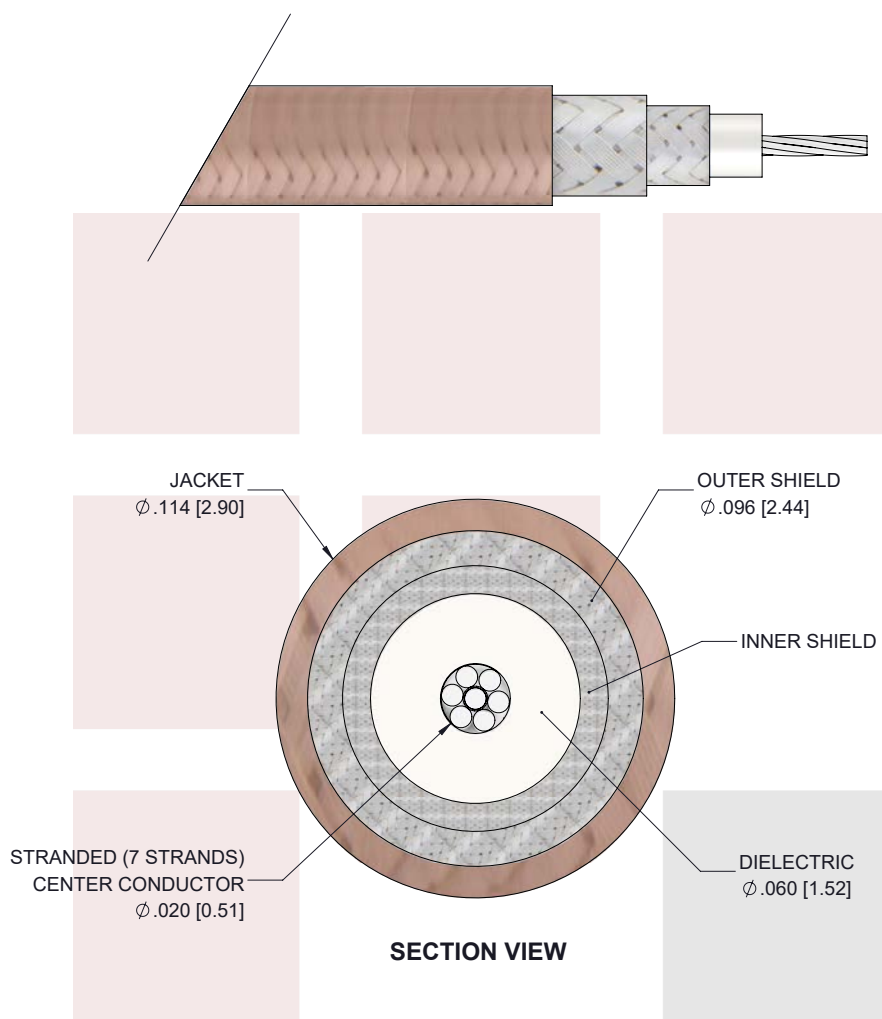
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**STANDARD TOLERANCES**

.X ±0.2  
.XX ±0.01  
.XXX ±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

<b>Fairview Microwave</b> an INFINITE brand		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 RG316-DS Flexible Coax Cable Tan FEP Jacket		DWG NO RG316-DS		CAGE CODE 3FKR5		
CAD FILE	07/17/19	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361

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## Environmental Specifications

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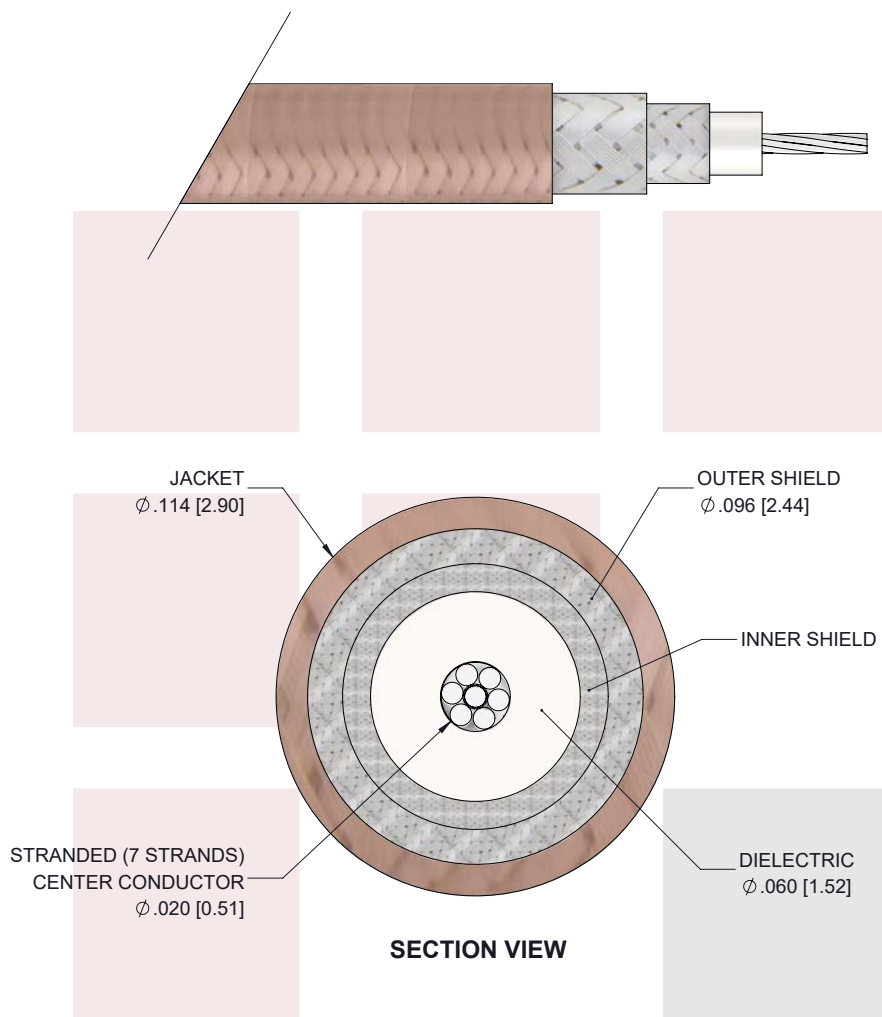
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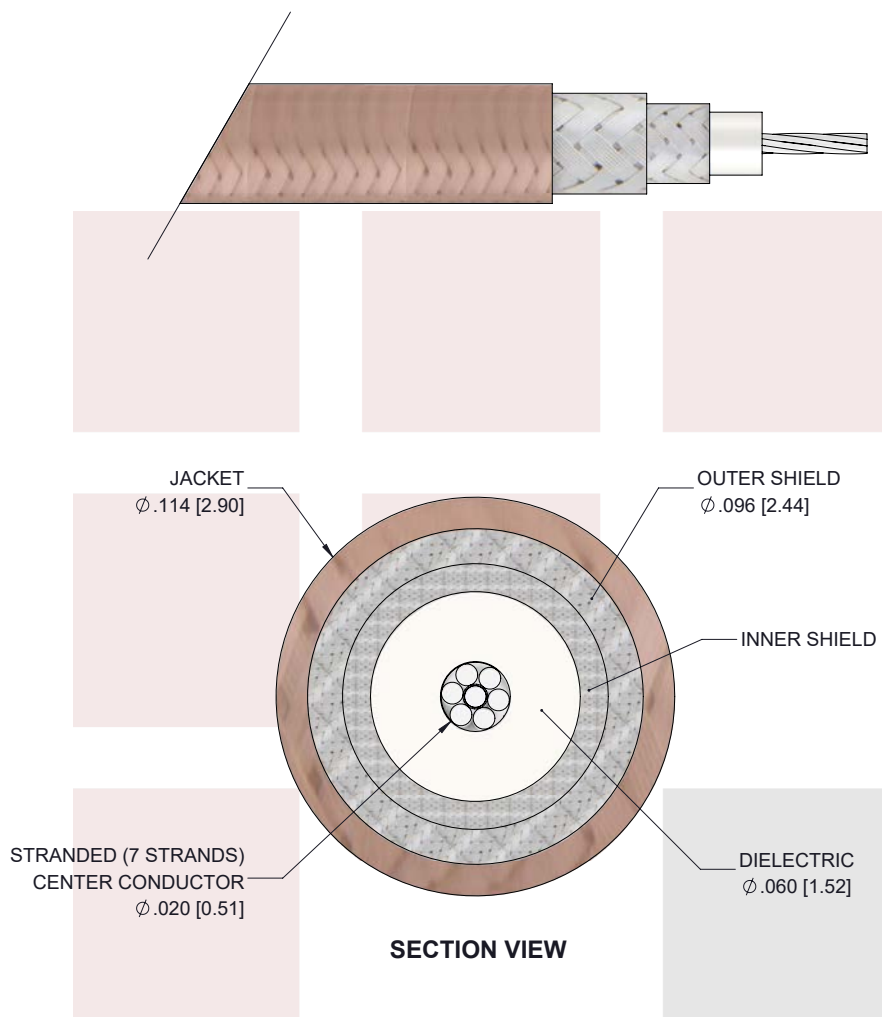
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