

**RG401C-SP****Construction**

|                 | Material                           | Diameter (Inch/mm) |               |
|-----------------|------------------------------------|--------------------|---------------|
| Inner Conductor | Silver plated copper               | 0.0641+/-0.001     | 1.63+/-0.0254 |
| Dielectric      | PTFE                               | 0.209+/-0.001      | 5.30+/-0.0254 |
| Outer Conductor | Seamless Silver Plated Copper Tube | 0.250+/-0.001      | 6.35+/-0.0254 |

**Electrical & Mechanical Characteristics**

|   |             |
|---|-------------|
| Capacitance (pF/m)                                    | 95.1        |
| Impedance ( $\Omega$ )                                | 50+/-2      |
| Velocity of Propagation (%)                           | 70.0        |
| Corona Extinction voltage (VRMS@60Hz)                 | 3000.0      |
| Voltage withstanding (VRMS@60Hz)                      | 7500.0      |
| Max Operating Frequency (GHz)                         | 19.0        |
| Min. Inside Bend Radius (mm)                          | 12.5        |
| Outer Conductor Integrity Temp ( $^{\circ}\text{C}$ ) | 150.0       |
| Operating Temp Range ( $^{\circ}\text{C}$ )           | -55 to +100 |

**Attenuation & Average Power( 20  $^{\circ}\text{C}$  & Seal Level)**

| Frequency(GHz) | Max Attenuation dB/ft. (dB/meter) | Power (Watts CW) |
|----------------|-----------------------------------|------------------|
| 0.5            | 0.05 (0.16)                       | 951.6            |
| 1.0            | 0.07 (0.23)                       | 653.1            |
| 5.0            | 0.17 (0.57)                       | 259.9            |
| 10.0           | 0.27 (0.89)                       | 169.8            |

