

| 50Ω Semi-rigid Coaxial Cable                   |  | .047TIN-W-P-50       |             |
|------------------------------------------------|--|----------------------|-------------|
| <b>DIMENSIONS</b>                              |  |                      |             |
| Center Conductor Diameter                      |  |                      |             |
| (inch)                                         |  | 0.0113±0.0005        |             |
| (mm)                                           |  | 0.29 ± 0.0127        |             |
| Dielectric Diameter                            |  |                      |             |
| (inch)                                         |  | 0.0362±0.001         |             |
| (mm)                                           |  | 0.92 ±0.0254         |             |
| Outer Conductor Diameter                       |  |                      |             |
| (inch)                                         |  | 0.0449+0.002/-0.001  |             |
| (mm)                                           |  | 1.14 +0.0508/-0.0254 |             |
| <b>MATERIAL SPECIFICATIONS</b>                 |  |                      |             |
| Outer Conductor                                |  | Tin Plated Copper    |             |
| Dielectric                                     |  | PTFE                 |             |
| Center Conductor                               |  | SPCW                 |             |
| <b>ELECTRICAL CHARACTERISTICS</b>              |  |                      |             |
| Impedance                                      |  | 50±1.5               |             |
| Capacitance (Nominal)                          |  |                      |             |
| (pF/ft)                                        |  | 29.0                 |             |
| (pF/m)                                         |  | 95.1                 |             |
| Corona Extinction Voltage                      |  |                      |             |
| (VRMS 60Hz)                                    |  | 1000                 |             |
| Voltage Withstanding                           |  |                      |             |
| (VRMS 60Hz)                                    |  | 2000                 |             |
| Cut off Frequency (GHz)                        |  | 109                  |             |
| Typical Attenuation                            |  |                      |             |
| Average Power (Watts CW) at 20°C and Sea Level |  | Power                |             |
|                                                |  | Attenuation          |             |
|                                                |  | dB/<br>100Ft         | dB/<br>100M |
| 0.5GHz                                         |  | 24.0                 | 78.7        |
| 1GHz                                           |  | 34.2                 | 112.2       |
| 5GHz                                           |  | 78.8                 | 285.5       |
| 10GHz                                          |  | 113.8                | 373.3       |
| 20GHz                                          |  | 165.9                | 544.2       |
| <b>MECHANICAL CHARACTERISTICS</b>              |  |                      |             |
| Max. Operating Temperature (°C)                |  | 150                  |             |
| Min. Inside Bend Radius                        |  |                      |             |
| (inch)                                         |  | 0.050                |             |
| (mm)                                           |  | 1.27                 |             |
| Weight                                         |  |                      |             |
| (g/Ft)                                         |  | 1.75                 |             |
| (g/M)                                          |  | 5.8                  |             |

**This part number complies with RoHS.**

**Notice: JYBAO reserves the right to make modifications deemed appropriate.**