

| 50Ω Semi-rigid Coaxial Cable                   |  | .085TIN-C-L-50    |             |
|------------------------------------------------|--|-------------------|-------------|
| <b>DIMENSIONS</b>                              |  |                   |             |
| Center Conductor Diameter                      |  |                   |             |
| (inch)                                         |  | 0.0226±0.0005     |             |
| (mm)                                           |  | 0.574 ± 0.0127    |             |
| Dielectric Diameter                            |  |                   |             |
| (inch)                                         |  | 0.066±0.0015      |             |
| (mm)                                           |  | 1.676 ±0.038      |             |
| Outer Conductor Diameter                       |  |                   |             |
| (inch)                                         |  | 0.0865±0.002      |             |
| (mm)                                           |  | 2.20±0.0508       |             |
| <b>MATERIAL SPECIFICATIONS</b>                 |  |                   |             |
| Outer Conductor                                |  | Tin Plated Copper |             |
| Dielectric                                     |  | Low Density PTFE  |             |
| Center Conductor                               |  | SPC               |             |
| <b>ELECTRICAL CHARACTERISTICS</b>              |  |                   |             |
| Impedance                                      |  | 50±2              |             |
| Capacitance (Nominal)                          |  |                   |             |
| (pF/ft)                                        |  | 27.0              |             |
| (pF/m)                                         |  | 88.56             |             |
| Corona Extinction Voltage                      |  |                   |             |
| (VRMS 60Hz)                                    |  | 1500              |             |
| Voltage Withstanding                           |  |                   |             |
| (VRMS 60Hz)                                    |  | 2500              |             |
| Cut off Frequency (GHz)                        |  | 64                |             |
| Typical Attenuation                            |  |                   |             |
| Average Power (Watts CW) at 20°C and Sea Level |  | Attenuation       | Power       |
|                                                |  | dB/<br>100Ft      | dB/<br>100M |
| 0.5GHz                                         |  | 12.4              | 40.7        |
| 1GHz                                           |  | 17.6              | 57.7        |
| 5GHz                                           |  | 40.1              | 131.5       |
| 10GHz                                          |  | 57.4              | 188.3       |
| 20GHz                                          |  | 82.6              | 270.9       |
| 26.5GHzx                                       |  | 95.9              | 314.6       |
| 40GHz                                          |  | 119.6             | 392.3       |
| <b>MECHANICAL CHARACTERISTICS</b>              |  |                   |             |
| Max. Operating Temperature (°C)                |  | 250               |             |
| Min. Inside Bend Radius                        |  |                   |             |
| (inch)                                         |  | 0.250             |             |
| (mm)                                           |  | 6.35              |             |
| Weight                                         |  |                   |             |
| (g/Ft)                                         |  | 6.5               |             |
| (g/M)                                          |  | 21.3              |             |

This part number complies with RoHS.

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