

| 50Ω Semi-rigid Coaxial Cable                   | <b>.118AG-W-L-50</b> |             |       |
|--|----------------------|-------------|-------|
| <b>DIMENSIONS</b>                              |                      |             |       |
| Center Conductor Diameter                      |                      |             |       |
| (inch)   | 0.032±0.0010         |             |       |
| (mm)   | 0.813 ± 0.0254       |             |       |
| Dielectric Diameter                            |                      |             |       |
| (inch)   | 0.0941±0.001         |             |       |
| (mm)   | 2.39 ±0.0254         |             |       |
| Outer Conductor Diameter                       |                      |             |       |
| (inch)   | 0.1157+0.002         |             |       |
| (mm)   | 2.94±0.0508          |             |       |
| <b>MATERIAL SPECIFICATIONS</b>                 |                      |             |       |
| Outer Conductor                                | Silver Plated Copper |             |       |
| Dielectric                                     | Low Density PTFE     |             |       |
| Center Conductor                               | SPCW                 |             |       |
| <b>ELECTRICAL CHARACTERISTICS</b>              |                      |             |       |
| Impedance                                      | 50±1.5               |             |       |
| Capacitance (Nominal)                          |                      |             |       |
| (pF/ft)  | 23.23                |             |       |
| (pF/m)   | 76.2                 |             |       |
| Corona Extinction Voltage                      |                      |             |       |
| (VRMS 60Hz)                                    | 1200                 |             |       |
| Voltage Withstanding                           |                      |             |       |
| (VRMS 60Hz)                                    | 3500                 |             |       |
| Cut off Frequency (GHz)                        | 40                   |             |       |
| Typical Attenuation                            | Attenuation          |             | Power |
| Average Power (Watts CW) at 20°C and Sea Level | dB/<br>100Ft         | dB/<br>100M |       |
| 0.5GHz   | 8.6                  | 28.2        | 511   |
| 1GHz   | 12.2                 | 40          | 365   |
| 5GHz   | 28.7                 | 94.2        | 153   |
| 10GHz  | 42.1                 | 138.1       | 105   |
| 20GHz  | 62.6                 | 205.3       | 70.8  |
| 30GHz  | 79.5                 | 260.8       | 55.5  |
| 40GHz  | 94.6                 | 310         | 46.7  |
| <b>MECHANICAL CHARACTERISTICS</b>              |                      |             |       |
| Max. Operating Temperature (°C)                | 250                  |             |       |
| Min. Inside Bend Radius                        |                      |             |       |
| (inch)   | 0.375                |             |       |
| (mm)   | 9.5                  |             |       |
| Weight   |                      |             |       |
| (g/Ft)   | 9.4                  |             |       |
| (g/M)  | 30.8                 |             |       |

This part number complies with RoHS.

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