

| 50Ω Semi-rigid Coaxial Cable                   |  | .141AL-W-P-50        |       |
|------------------------------------------------|--|----------------------|-------|
| <b>DIMENSIONS</b>                              |  |                      |       |
| Center Conductor Diameter                      |  |                      |       |
| (inch)                                         |  | 0.0359±0.0010        |       |
| (mm)                                           |  | 0.91 ± 0.0254        |       |
| Dielectric Diameter                            |  |                      |       |
| (inch)                                         |  | 0.1175±0.001         |       |
| (mm)                                           |  | 2.98 ±0.0254         |       |
| Outer Conductor Diameter                       |  |                      |       |
| (inch)                                         |  | 0.141+0.002/-0.001   |       |
| (mm)                                           |  | 3.58 +0.0508/-0.0254 |       |
| <b>MATERIAL SPECIFICATIONS</b>                 |  |                      |       |
| Outer Conductor                                |  | Tin Plated Aluminium |       |
| 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)                                    |  | 1900                 |       |
| Voltage Withstanding                           |  |                      |       |
| (VRMS 60Hz)                                    |  | 5000                 |       |
| Cut off Frequency (GHz)                        |  | 34                   |       |
| Typical Attenuation                            |  |                      |       |
| Average Power (Watts CW) at 20°C and Sea Level |  |                      |       |
| 0.5GHz                                         |  | 8.3                  | 27.2  |
| 1GHz                                           |  | 12.2                 | 40    |
| 5GHz                                           |  | 30.0                 | 98.4  |
| 10GHz                                          |  | 46.6                 | 152.8 |
| 20GHz                                          |  | 71.0                 | 232.9 |
| <b>MECHANICAL CHARACTERISTICS</b>              |  |                      |       |
| Max. Operating Temperature (°C)                |  | 125                  |       |
| Min. Inside Bend Radius                        |  |                      |       |
| (inch)                                         |  | 0.125                |       |
| (mm)                                           |  | 3.18                 |       |
| Weight                                         |  |                      |       |
| (g/Ft)                                         |  | 8.15                 |       |
| (g/M)                                          |  | 26.7                 |       |

This part number complies with RoHS.

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