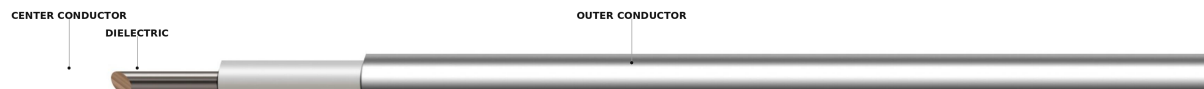


## KL-034E — Semi-Rigid Coaxial Cable

Economy Semi-Rigid Coaxial Cable



### Structure & Materials

| Element          | Dimension (mm) | Material                                   |
|------------------|----------------|--------------------------------------------|
| Center Conductor | 0.203          | Silver-Plated Copper                       |
| Dielectric       | 0.660          | PTFE                                       |
| Outer Conductor  | 0.864          | Seamless Copper Tube, Ternary-Alloy Plated |

### Electrical Properties

| Parameter                       | Value       |
|---------------------------------|-------------|
| Operating Frequency             | DC – 40 GHz |
| Cutoff Frequency                | 154 GHz     |
| Characteristic Impedance        | 50 $\Omega$ |
| Velocity of Propagation         | 70%         |
| Shielding Effectiveness         | > 165 dB    |
| Dielectric Withstanding Voltage | 100 V DC    |

### Attenuation & Power Handling (Typical, 25°C / 40°C)

| Frequency (MHz)       | 1000  | 2000  | 3000  | 6000  | 8000  | 10000 | 12400 | 18000 | 26500 | 40000  |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Attenuation (dB/100m) | 157.9 | 224.9 | 277.1 | 397.0 | 461.5 | 519.0 | 581.6 | 709.6 | 874.5 | 1096.0 |
| Avg. Power (kW)       | 0.102 | 0.072 | 0.058 | 0.041 | 0.035 | 0.031 | 0.028 | 0.023 | 0.018 | 0.015  |

### Mechanical & Environmental

| Static Bend Radius | Weight     | Operating Temperature |
|--------------------|------------|-----------------------|
| 1.60 mm            | 0.003 kg/m | –55°C ~ +125°C        |

#### Features & Benefits

- Low VSWR
- Low PIM

#### Typical Applications

- RF module internal connection
- Precision instrument internal connection
- Tight-space connection