

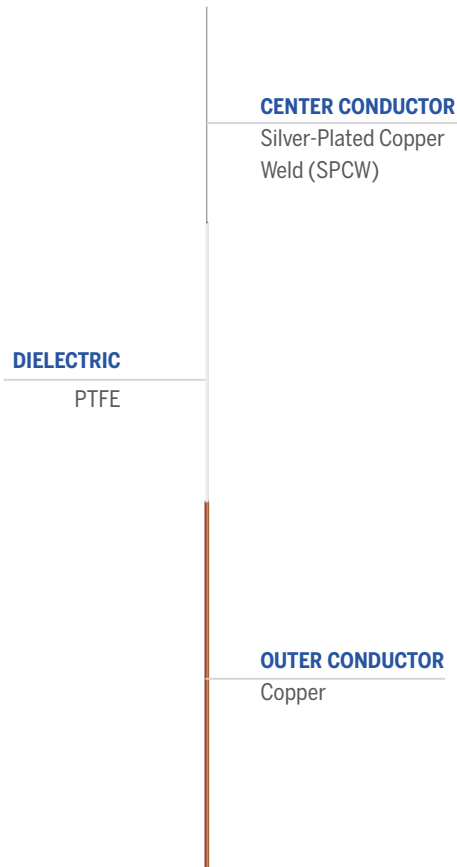
# UT-013

## Semi-Rigid Coaxial Cables



The 50Ω copper semi-rigid cables from Micro-Coax offer exceptional performance with minimal signal loss and low VSWR across the operating frequency. These versatile cables are engineered with high shielding effectiveness to reduce signal loss and interference, making them ideal for today's demanding applications.

### Details and Materials



**Impedance** 50 Ohms | 
 **Operating Temperature** -55°C to +125°C | 
 **RoHS Compliant**

### Dimensions

|                           |    |        |
|---------------------------|----|--------|
| Outer Conductor Diameter  | in | 0.013  |
|                           | mm | 0.330  |
| Center Conductor Diameter | in | 0.0031 |
|                           | mm | 0.0787 |
| Length (Maximum)          | ft | 1.0    |
|                           | m  | 3.05   |

### Mechanical Characteristics\*

|                                 |           |       |
|---------------------------------|-----------|-------|
| Outer Conductor Integrity Temp. | °C        | 150   |
| Inside Bend Radius (Minimum)    | in        | 0.050 |
|                                 | mm        | 1.270 |
| Weight                          | lbs/100ft | 0.03  |
|                                 | kg / 100m | 0.05  |

### Electrical Characteristics\*

|                             |             |       |
|-----------------------------|-------------|-------|
| Capacitance                 | pF/ft       | 29.0  |
|                             | pF/m        | 95.2  |
| Corona Extinction Voltage   | VRMS @60 Hz | 150   |
| Voltage Withstanding        | VRMS @60 Hz | 900   |
| Higher Order Mode Frequency | GHz         | 402.0 |

### Power (@ 20 °C, Maximum)

| GHz  | Watts Cw |
|------|----------|
| 0.5  | 6.4      |
| 1.0  | 4.5      |
| 5.0  | 2        |
| 10.0 | 1.4      |
| 18.0 | 1        |
| 26.5 | 0.9      |
| 40.0 | 0.7      |
| 50.0 | 0.6      |
| 65.0 | 0.5      |
| 90.0 | 0.5      |

### Attenuation (Typical)

| GHz  | dB/100 ft |
|------|-----------|
| 0.5  | 87.8      |
| 1.0  | 124.4     |
| 5.0  | 280.5     |
| 10.0 | 399.1     |
| 18.0 | 539.3     |
| 26.5 | 658.2     |
| 40.0 | 814.9     |
| 50.0 | 915.5     |
| 65.0 | 1050.4    |
| 90.0 | 1247.3    |

\* Applicable at room temperature. Contact for performance over temperature range.

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