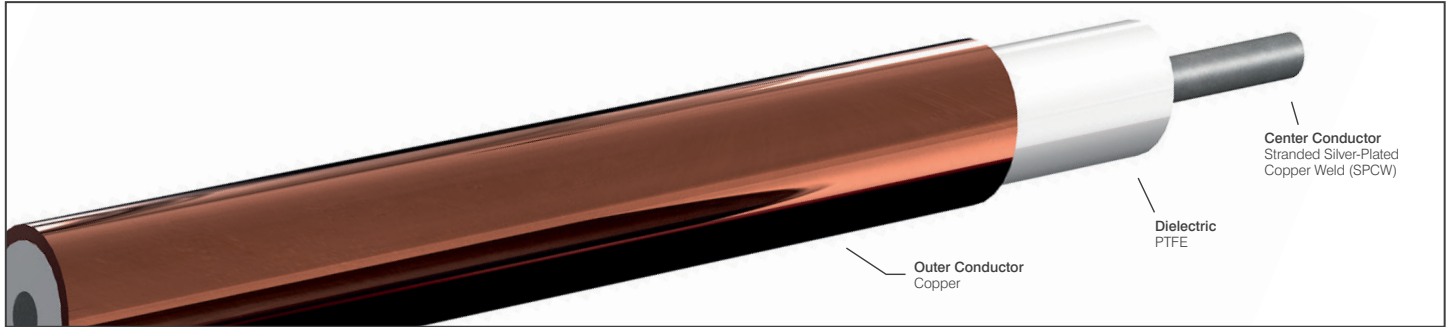


Semi-Rigid Coaxial Cables

P/N UT-056-STR | 50 Ω Copper Outer Conductor

INTRODUCTION



All of our 50 Ω copper semi-rigid cables feature low attenuation and VSWR covering the entire microwave spectrum. With numerous connector options available off-the-shelf, this family of cables is one of the most versatile available today. They meet the demands of package density and provide total shielding for elimination of signal loss and noise.

DIMENSIONS

| | | |
|---------------------------|-------|---------------|
| Outer Conductor Diameter | in | 0.056 ± 0.002 |
| | mm | 1.422 ± 0.051 |
| Center Conductor Diameter | in | 7 x 0.0312 |
| | mm | 7 x 0.7925 |
| Length (Maximum) | Feet | 20 |
| | Meter | 6.10 |

MATERIALS

| | |
|-------------------------|--------|
| Outer Conductor | Copper |
| Outer Conductor Plating | None |
| Dielectric | PTFE |
| Center Conductor | SPCW |
| RoHS Compliant | ✓ |

MECHANICAL CHARACTERISTICS*

| | | |
|---------------------------------|-------------|-------|
| Outer Conductor Integrity Temp. | °C | 200 |
| Operating Temperature (Max) | °C | 175 |
| Inside Bend Radius (Minimum) | in | 0.063 |
| | mm | 1.600 |
| Weight | lbs / 100ft | 0.72 |
| | kg / 100m | 1.08 |

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

ELECTRICAL CHARACTERISTICS*

| | | |
|--------------------------------------|--------------|-------|
| Characteristic Impedance | ohm | 50 |
| Capacitance | pF / ft | 29.0 |
| | pF / m | 95.2 |
| Corona Extinction Voltage | VRMS @ 60 Hz | 1000 |
| Voltage Withstanding | VRMS @ 60 Hz | 3000 |
| Higher Order Mode Frequency | GHz | 111.0 |
| Attenuation (Db / 100 Ft Typical) | @ 0.5 GHz | 24.7 |
| | @ 1.0 GHz | 35.2 |
| | @ 5.0 GHz | 81 |
| | @ 10.0 GHz | 117 |
| | @ 18.0 GHz | 160.8 |
| | @ 26.5 GHz | 199 |
| | @ 40.0 GHz | 250.6 |
| | @ 50.0 GHz | 284.6 |
| Power (Watts Cw @ 20 °C, Maximum) | @ 65.0 GHz | 331.2 |
| | @ 90.0 GHz | 400.9 |
| | @ 0.5 GHz | 107.3 |
| | @ 1.0 GHz | 75.4 |
| | @ 5.0 GHz | 33 |
| | @ 10.0 GHz | 23 |
| | @ 18.0 GHz | 16.8 |
| | @ 26.5 GHz | 13.6 |
| | @ 40.0 GHz | 10.9 |
| | @ 50.0 GHz | 9.6 |
| @ 65.0 GHz | 8.3 | |
| @ 90.0 GHz | 6.9 | |