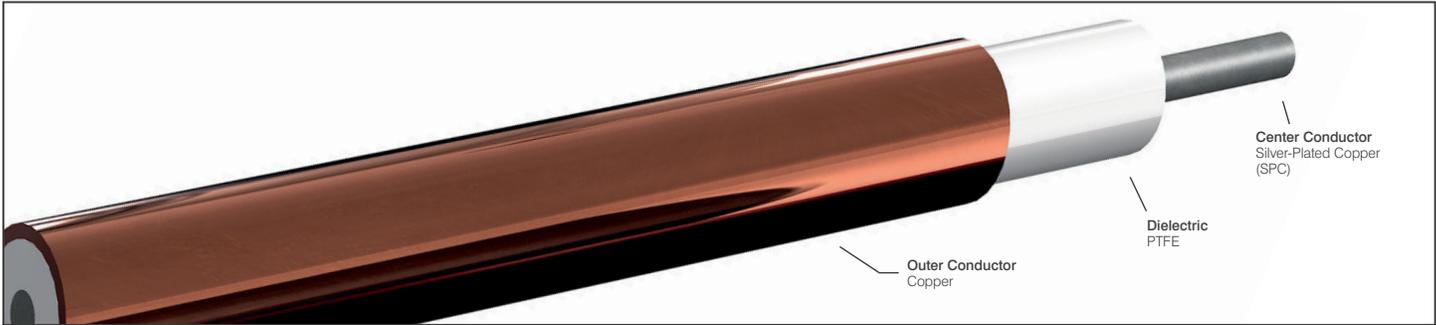


Semi-Rigid Coaxial Cables

P/N UT-047C-35 | 35 Ω Copper Outer Conductor

INTRODUCTION



With impedances from 5 to 100 Ω and diameters from 0.020 to 0.250", our odd-impedance semi-rigid cables are the right solution for any impedance-matching requirement.

| DIMENSIONS | | |
|---------------------------|-------|---------------|
| Outer Conductor Diameter | in | 0.047 ± 0.001 |
| | mm | 1.194 ± 0.025 |
| Center Conductor Diameter | in | 0.0159 |
| | mm | 0.4039 |
| Length (Maximum) | Feet | 20 |
| | Meter | 6.10 |

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

| MECHANICAL CHARACTERISTICS* | | |
|---------------------------------|-------------|-------|
| Outer Conductor Integrity Temp. | °C | 175 |
| Operating Temperature (Max) | °C | 150 |
| Inside Bend Radius (Minimum) | in | 0.125 |
| | mm | 3.175 |
| Weight | lbs / 100ft | 0.43 |
| | kg / 100m | 0.65 |

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

| ELECTRICAL CHARACTERISTICS* | | |
|-----------------------------------|--------------|-------|
| Characteristic Impedance | ohm | 35 |
| Capacitance | pF / ft | 41.5 |
| | pF / m | 136.0 |
| Corona Extinction Voltage | VRMS @ 60 Hz | 800 |
| Voltage Withstanding | VRMS @ 60 Hz | 2400 |
| Higher Order Mode Frequency | GHz | 100.0 |
| Attenuation (Db / 100 Ft Typical) | @ 0.5 GHz | 26.2 |
| | @ 1.0 GHz | 37.3 |
| | @ 5.0 GHz | 85.7 |
| | @ 10.0 GHz | 123.6 |
| | @ 18.0 GHz | 169.7 |
| | @ 26.5 GHz | 209.8 |
| | @ 40.0 GHz | 263.9 |
| | @ 50.0 GHz | 299.4 |
| | @ 65.0 GHz | 348.1 |
| Power (Watts Cw @ 20 °C, Maximum) | @ 0.5 GHz | 74.1 |
| | @ 1.0 GHz | 52.1 |
| | @ 5.0 GHz | 22.8 |
| | @ 10.0 GHz | 15.9 |
| | @ 18.0 GHz | 11.6 |
| | @ 26.5 GHz | 9.4 |
| | @ 40.0 GHz | 7.5 |
| | @ 50.0 GHz | 6.7 |
| | @ 65.0 GHz | 5.8 |
| @ 90.0 GHz | 4.8 | |