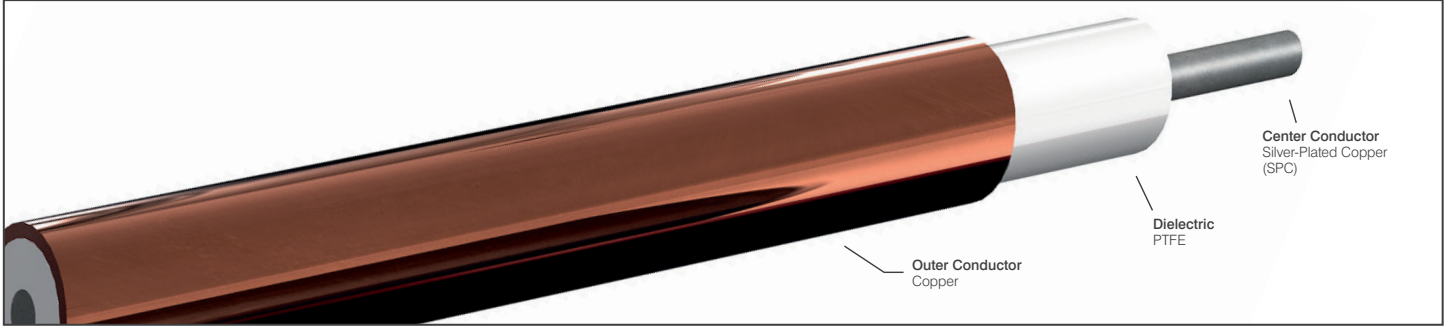


Semi-Rigid Coaxial Cables

P/N UT-390C | 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	0.390 ± 0.002
	mm	9.906 ± 0.051
Center Conductor Diameter	in	0.1020
	mm	2.5908
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	90
Inside Bend Radius (Minimum)	in	0.750
	mm	19.050
Weight	lbs / 100ft	24.40
	kg / 100m	36.63

* 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	6000
Voltage Withstanding	VRMS @ 60 Hz	26700
Higher Order Mode Frequency	GHz	12.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	3
	@ 1.0 GHz	4.6
	@ 5.0 GHz	12.5
	@ 10.0 GHz	20.1
	@ 18.0 GHz	N/A
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	3425.8
	@ 1.0 GHz	2321.5
	@ 5.0 GHz	883.1
	@ 10.0 GHz	561.6
	@ 18.0 GHz	N/A
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 65.0 GHz	N/A
	@ 90.0 GHz	N/A