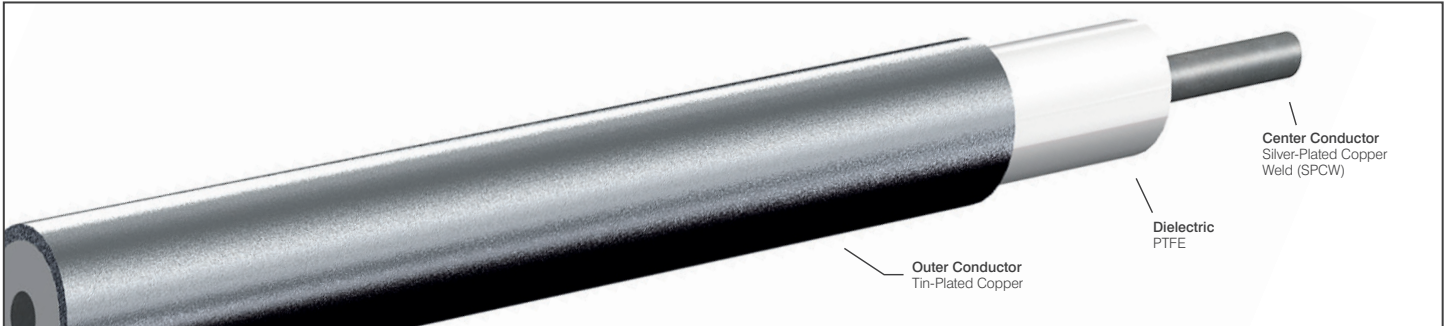


Semi-Rigid Coaxial Cables

P/N UT-215-TP | 50 Ω Tin-Plated 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	0.215 + 0.003 /-0.002
	mm	5.461 + 0.076 /-0.051
Center Conductor Diameter	in	0.0571
	mm	1.4503
Length (Maximum)	Feet	20
	Meter	6.10

MATERIALS

Outer Conductor	Copper
Outer Conductor Plating	Tin
Dielectric	PTFE
Center Conductor	SPCW
RoHS Compliant	✓

MECHANICAL CHARACTERISTICS*

Outer Conductor Integrity Temp.	°C	150
Operating Temperature (Max)	°C	125
Inside Bend Radius (Minimum)	in	0.375
	mm	9.525
Weight	lbs / 100ft	7.17
	kg / 100m	10.76

* 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	3000
Voltage Withstanding	VRMS @ 60 Hz	15000
Higher Order Mode Frequency	GHz	22.0
Attenuation (Db / 100 Ft Typical)	@ 0.5 GHz	5.1
	@ 1.0 GHz	7.5
	@ 5.0 GHz	19.1
	@ 10.0 GHz	29.4
	@ 18.0 GHz	43.3
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A
Power (Watts Cw @ 20 °C, Maximum)	@ 0.5 GHz	844.1
	@ 1.0 GHz	581.2
	@ 5.0 GHz	234
	@ 10.0 GHz	154
	@ 18.0 GHz	106.1
	@ 26.5 GHz	N/A
	@ 40.0 GHz	N/A
	@ 50.0 GHz	N/A
	@ 90.0 GHz	N/A