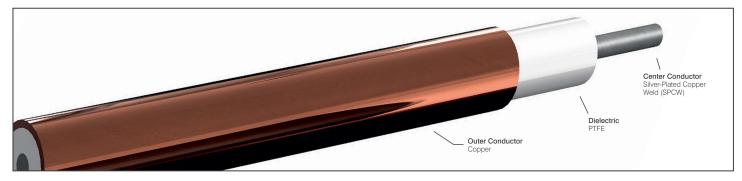
Semi-Rigid Coaxial Cables

P/N UT-020 | 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	0.023 ± 0.0010
	mm	0.5842 ± 0.0254
Center Conductor Diameter	in	0.0050
	mm	0.1270
Length (Maximum)	Feet	10
	Meter	3.05

MATERIALS	
Outer Conductor	Copper
Outer Conductor Plating	None
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	0.050		
	mm	1.270		
Weight	lbs / 100ft	0.10		
	kg / 100m	0.15		

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

Corona Extinction Voltage Voltage Withstanding Higher Order Mode Frequency GHz GHz 239.0 GHz 239.0 GHz 3239.0 GHz 3239.0 GHz 3239.0 GHz GHZ 339.0 GHz GHZ 339.0 GHZ GHZ 339.0 GHZ GHZ 73.3 GHZ GHZ 73.3 GHZ GHZ 73.3 GHZ GHZ 73.3 GHZ GHZ GHZ GHZ GHZ GHZ GHZ GH	Capacitance	pF / ft	29.0
Voltage Withstanding Higher Order Mode Frequency @ 0.5 GHz		pF/m	95.2
Higher Order Mode Frequency GHz 239.0 @ 0.5 GHz	Corona Extinction Voltage	VRMS @ 60 Hz	500
Frequency @ 0.5 GHz	Voltage Withstanding	VRMS @ 60 Hz	1500
@ 1.0 GHz 73.3 @ 5.0 GHz 166.1 @ 10.0 GHz 237.4 @ 18.0 GHz 322.3 @ 26.5 GHz 394.9 @ 40.0 GHz 491.4 @ 50.0 GHz 638.1 @ 90.0 GHz 638.1 @ 90.0 GHz 762.1 Power (Watts Cw @ 20 °C, Maximum) Power (Watts Cw @ 20 GHz 1.8 @ 50.0 GHz 1.8 @ 65.0 GHz 1.8 @ 65.0 GHz 1.8 @ 65.0 GHz 1.8 @ 65.0 GHz 1.8		GHz	239.0
Attenuation (Db / 100 Ft Typical) Attenuation (Db / 100 Ft Typical) @ 5.0 GHz		@ 0.5 GHz	51.6
Attenuation (Db / 100 Ft Typical) Attenuation (Db / 100 Ft Typical) @ 10.0 GHz		@ 1.0 GHz	73.3
Attenuation (Db / 100 Ft Typical) @ 18.0 GHz 322.3 @ 26.5 GHz 394.9 @ 40.0 GHz 491.4 @ 50.0 GHz 638.1 @ 90.0 GHz 762.1 @ 0.5 GHz 17.2 @ 1.0 GHz 12.1 @ 5.0 GHz 5.4 @ 10.0 GHz 3.8 Power (Watts Cw @ 18.0 GHz 2.8 @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 5.0 GHz	166.1
(Db / 100 Ft Typical) @ 26.5 GHz		@ 10.0 GHz	237.4
@ 40.0 GHz	Attenuation	@ 18.0 GHz	322.3
@ 50.0 GHz 553.8 @ 65.0 GHz 638.1 @ 90.0 GHz 762.1 @ 0.5 GHz 17.2 @ 1.0 GHz 12.1 @ 5.0 GHz 5.4 @ 10.0 GHz 3.8 @ 18.0 GHz 2.8 @ 20 °C, Maximum) @ 26.5 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4	(Db / 100 Ft Typical)	@ 26.5 GHz	394.9
@ 65.0 GHz 638.1 @ 90.0 GHz 762.1 @ 0.5 GHz 17.2 @ 1.0 GHz 12.1 @ 5.0 GHz 5.4 @ 10.0 GHz 3.8 Power (Watts Cw @ 18.0 GHz 2.8 @ 20 °C, Maximum) @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 40.0 GHz	491.4
@ 90.0 GHz 762.1 @ 0.5 GHz 17.2 @ 1.0 GHz 12.1 @ 5.0 GHz 5.4 @ 10.0 GHz 3.8 Power (Watts Cw @ 18.0 GHz 2.8 @ 20 °C, Maximum) @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 50.0 GHz	553.8
@ 0.5 GHz 17.2 @ 1.0 GHz 12.1 @ 5.0 GHz 5.4 @ 10.0 GHz 3.8 Power (Watts Cw @ 18.0 GHz 2.8 @ 20 °C, Maximum) @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 65.0 GHz	638.1
@ 1.0 GHz 12.1 @ 5.0 GHz 5.4 @ 10.0 GHz 3.8 Power (Watts Cw @ 18.0 GHz 2.8 @ 20 °C, Maximum) @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 90.0 GHz	762.1
@ 5.0 GHz 5.4 @ 10.0 GHz 3.8 Power (Watts Cw @ 20 °C, Maximum)		@ 0.5 GHz	17.2
@ 10.0 GHz 3.8 @ 18.0 GHz 2.8 @ 18.0 GHz 2.8 @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 1.0 GHz	12.1
Power (Watts Cw @ 18.0 GHz 2.8 @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4		@ 5.0 GHz	5.4
@ 20 °C, Maximum) @ 26.5 GHz 2.3 @ 40.0 GHz 1.8 @ 50.0 GHz 1.6 @ 65.0 GHz 1.4	,	@ 10.0 GHz	3.8
@ 40.0 GHz		@ 18.0 GHz	2.8
@ 50.0 GHz		@ 26.5 GHz	2.3
@ 65.0 GHz 1.4		@ 40.0 GHz	1.8
		@ 50.0 GHz	1.6
@ 90.0 GHz 1.2		@ 65.0 GHz	1.4
		@ 90.0 GHz	1.2

ELECTRICAL CHARACTERISTICS*

ohm

Characteristic Impedance



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50