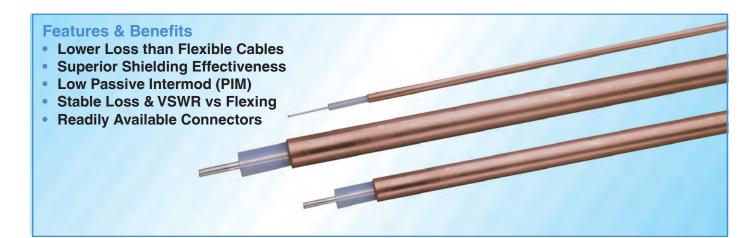


Low Loss Microwave Interconnect

Wireless Base Station Interconnect



Coppersol employs a thin tubular copper outer conductor and solid PTFE dielectric which provides the lowest attenuation and highest shielding giving it significant performance advantages over flexible coax of similar size.

Coppersol was developed 30-40 years ago and was subsequently adopted by the military and MIL-C-17 specification sheets and QPL status were achieved.

Some of the key characteristics of Coppersol are:

Shielding Effectiveness – the highest achievable for any cable and is estimated at >165 db, well below measurable limits..

Small/Lightweight – much smaller and therefore lighter weight than flexible coax having similar electrical performance.

Phase Stable – the solid outer conductor minimizes electrical length change with temperature to substantially lower levels than flexible coax cables.

Low Loss – can achieve up to 50% less loss than flexible cable of the same size.

Attenuation Stability - impervious outer conductor prevents oxidation of the conductors thereby minimizing attenuation change vs. time.

Electrical Performance - has lowest VSWR and pulse reflection coefficient and exhibits very uniform characteristics to >20 GHz.

Corrosion Resistance - jacketing of the bare copper tube or plating with tin or silver is recommended when cable is deployed in a corrosive environment.

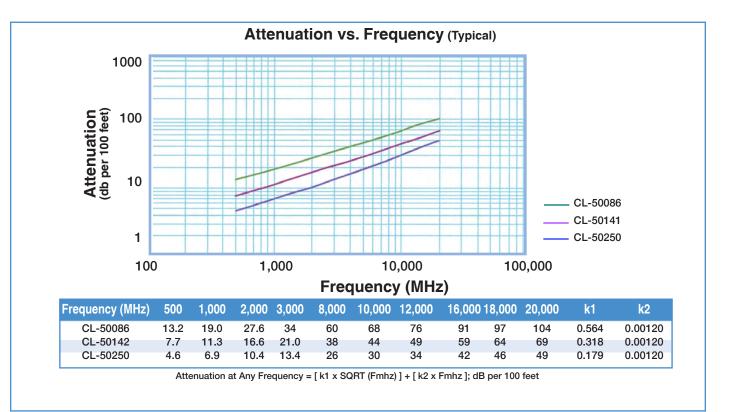
Formability - the solid copper tube enables the cable to be bent to any 3 dimensional configuration and have it retain its shape.

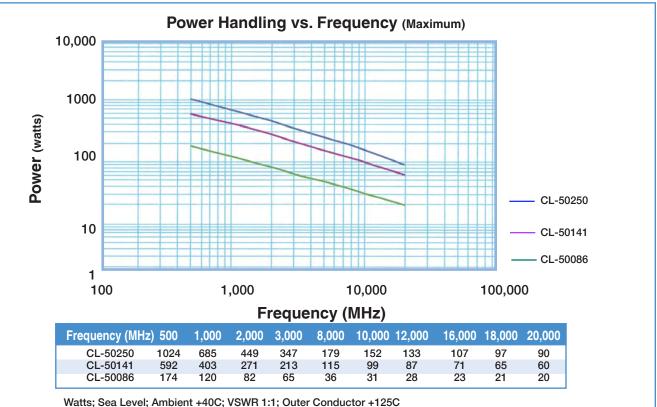
Connectors - standard inexpensive solder-on connectors are available from a variety of connector sources.

Coppersol Semirigid Coaxial Cables

TMS Numberinches (mm) (mm)	Conductor inches (mm)	Dielectric inches (kg/m)	Shields Ibs/foot Vp(%)	Weight ohms (pF/m)	Impedance pF/foot Cent. Cond Shie	Capacitance		esistance Ikft (/km/oltag F (C)in. (n		Temp. Radius	Min, Bend Freq.	Test
CL-50086 M17/133-RG405	SCCS 0.0201	PTFE 0.066	BC Tube 0.0865	0.0153	50+/-1.5	29.4	64.8	2.68	1.5	-40+194	0.125	0.5- 20
CL-50141 M17/130-RG402	(0.51) SCCS 0.0362	(1.68) PTFE 0.1175	(2.20) BC Tube 0.141	(0.023) 0.0344	69.5 50+/-1	(96.5) 29.4	(212.6) 20.0	(8.86) 1.32	1.9	(-40+125) -40+194	(3.2) 0.250	GHz 0.5- 20
CL-50250 M17/129-RG401	(0.92) SC 0.0641	(2.98) PTFE 0.209	(3.58) BC Tube 0.250	(0.051) 0.105	69.5 50+/-0.5	(96.5) 29.4	(65.6) 2.6	(4.3) 0.45	3.0	(-40+125) -40+194	(6.4) 0.375	GHz 0.5- 20
	(1.63)	(5.31)	(6.35)	(0.156)	69.5	(96.5)	(8.4)	(1.5)		(-40+125)	(9.5)	GHz

- Low Passive Intermod
- High Temperature





High Power