

MaxFlex high-performance flexible cable



MaxFlex cable is a flexible alternative to semi-rigid cable. With its 100% shield coverage, it provides equivalent performance to MIL-C-17 semi-rigid, but is as flexible as many MIL-C-17 flexible coaxial cables.

Using MaxFlex cable, assemblies can be made to approximate overall length and installed into equipment without the tooling required for bending semi-rigid cable.

Performance:

Temperature rating: 200° C.

Impedance: 50 ±2Ω.

Shielding effect: >100 dB.

Construction Details

Center Conductor: Solid SPC or SPCW.

Dielectric: Solid PTFE.

Inner Shield: Spiral-wrapped silver-plated copper tape, 100% coverage.

Outer Shield: Silver-plated copper braid, 90% minimum coverage.

Jacket: Extruded FEP (blue).

Options: Stranded center conductor for enhanced flexibility; LTE (expanded extruded PTFE) dielectric for faster transmission speed; other jacket colors.

Dimensions and Weights

Thermax P/N	Inner Conductor Diameter	Dielectric Diameter	Inner Shield Diameter	Outer Shield Diameter	Jacket Diameter	Weight	Min. Bend Radius	MIL-C-17 Equivalent
710-0201	.0201 (.51) SPCW	.064 (1.63)	.070 (1.78)	.085 (2.16)	.103 (2.62)	13 (19.4)	.25 (6.4)	M17/133
710-037	.037 (.94) SPCW	.117 (2.97)	.125 (3.18)	.137 (3.48)	.158 (4.01)	32 (47.7)	.50 (12.7)	M17/130
710-0641	.064 (1.63) SPC	.210 (5.33)	.222 (5.64)	.240 (6.10)	.270 (6.86)	81 (120.7)	2.0 (50.8)	M17/129

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M).

SPC: Silver-plated copper. **SPCW:** Silver-plated copperweld (copper-covered steel).

All values are nominal unless otherwise indicated.

Electrical Performance

Thermax P/N	Velocity of Propagation	Capacitance (pF/ft)	Attenuation (dB/100 ft.)			
			500 MHz	1 GHz	5 GHz	10 GHz
710-0201	69.5%	29	22	32	39	75
710-037	69.5%	29	12	18	23	46
710-0641	69.5%	29	7.8	11	14	31

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