



Thermal Straps: Efficient Cooling without Structural Loading

When designers need to cool sensitive spacecraft components by dissipating high heat loads without any maintenance, they turn to lightweight k-Core® flexible straps.



These thermal straps provide a natural conduction path for cooling without adding structural loads to spacecraft components. And they're lighter in weight, smaller in size and offer better conduction than traditional thermal solutions. k-Core thermal straps perform effectively with aluminum encapsulant thicknesses of as little as .002 inches.

	Traditional Aluminum	k-Core®
Foils	137, each .004" thick	10, each .014" thick
Strap Thickness	.55"	.14"
Conductance	.65 W/K	.82 W/K
Weight	.85 lbs	.17 lbs

k-Core thermal straps also show increased conductivity at [cryogenic](#) temperatures, and they've been proven effective in dissipating heat from high-powered electronic components.