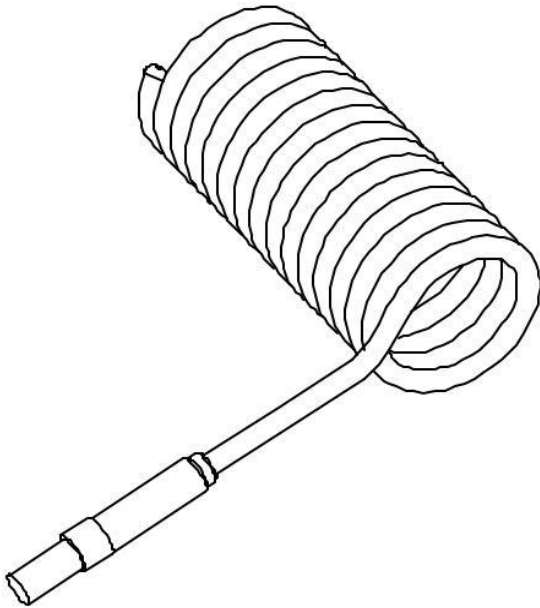


COIL & CABLE HIGH PERFORMANCE HEATERS



Acrolab coil and cable heaters are reliable, high performance small diameter heaters used whenever a large amount of heat is required in a confined space. These heaters are fully annealed and can be formed into various shapes and forms. Coil and cable heaters can accommodate thermocouple sensors, and their cross-section could be made square or rectangular to improve heat transfer. Coil heaters are successfully used as powerful heating cells in plastic injection molding hot-runner nozzles.

Coil and cable heaters are made by placing a pair of tiny coils or two lines of straight resistance wire inside a very dense MgO medium. This core is then inserted into a stainless steel shell. These high-performance heating cells can acquire temperatures of up to 1500° F. A coil heater in its unformed straight stage can have a maximum length of 6ft and its cross-section can be square or rectangular, while a cable heater can be 300ft long and is available in round cross sections. Thermocouple sensors could be installed internally at the tip or the middle of a heater. Power terminals, as well as ground and thermocouple wires are attached to the internal wires inside a transition adapter, which has a larger diameter than the actual heater's cross-sectional diameter. Although coil and cable heaters are fully annealed and can acquire any shape, they should be formed to a final shape in a single attempt. Forming and bending operations harden the outside stainless shell of a heater, and re-annealing might become necessary if changing the form is required. The wattage in a coiled heater could be distributed, with higher wattage at the two ends, simply by stretching and distancing apart the middle loops.

COIL & CABLE HIGH PERFORMANCE HEATERS

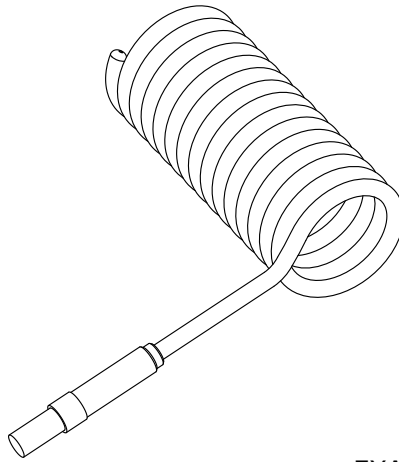
Installation Tips

- The inside diameter of a coil heater is 0.020" smaller than the nominal diameter of a nozzle. This is done intentionally to secure a positive grip at all times. During installation, a coil heater should be screwed to its proper position. Pushing forcefully or slightly opening the coil to facilitate installation could permanently damage the heater.
- During installation, only the straight cold section could be slightly bent. This should be done in a single attempt. The bending radius shouldn't be less than 0.5". It is always recommended to contact our factory when modifications of form are required.
- The straight cold section can withstand temperatures of up to 1500° F. However, to protect the lead wires, the temperature of the section beyond the transition adapter should be maintained below 480° F.
- Usually the sensing tip of a thermocouple is located at the end of the last loop of a coil heater. Care should be taken to insure that the last loop is properly gripping the nozzle.

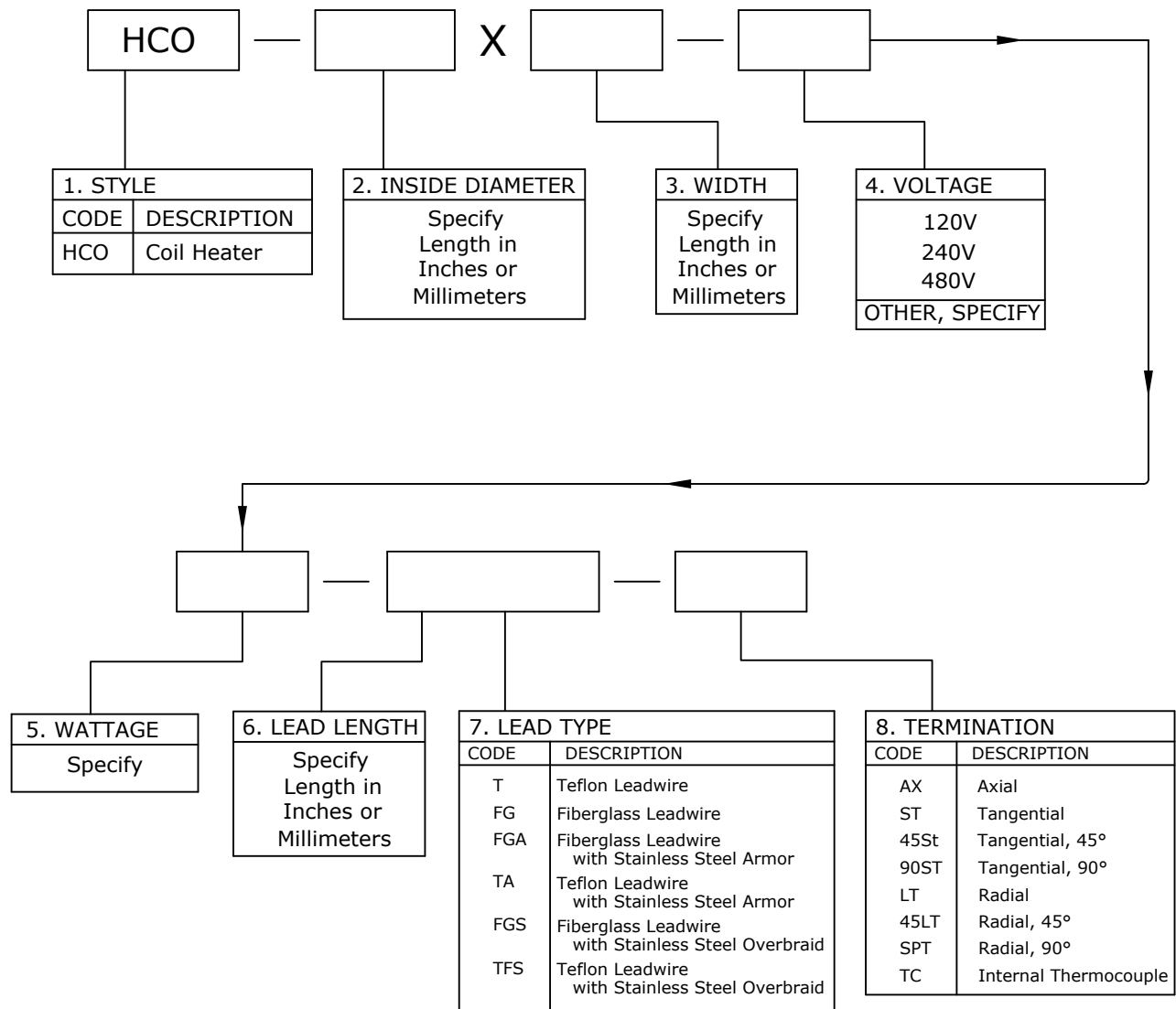
Available Coil Heaters

PART NUMBER	OEM EQ #	ID (IN)	LENGTH (IN)	WATTS	VOLTS	LEAD LENGTH AND TYPE	GROUND (IN)	COLD LEAD	TYPE J T/C	PROFILED HEAT
BK51492	SSTC-62-90	0.5	1.45	250	240	36" FLEX HOSE	Y	2	Y	Y
BK51992	SSTC-72-90	0.5	1.95	250	240	36" FLEX HOSE	Y	2	Y	Y
BK52502	SSTC-42	0.5	2.5	450	240	48" FLEX HOSE	Y	1/1	N	N
BK52592	SSTC-42-90	0.5	2.5	450	240	48" FLEX HOSE	Y	2	N	N
BK54601	SSTC-31	0.5	4.62	300	120	48" FLEX HOSE	Y	1/1	Y	Y
BK54691	SSTC-31-90	0.5	4.62	300	120	48" FLEX HOSE	Y	2	Y	Y
BK54602	SSTC-32	0.5	4.62	300	240	48" FLEX HOSE	Y	1/1	Y	Y
BK54692	SSTC-32-90	0.5	4.62	300	240	48" FLEX HOSE	Y	2	Y	Y
BK60902	SCH0003	0.5	2.5	450	240	42" SS BRAID	Y	2	Y	Y
BK62002	SCH0081	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK62502	SCH0082	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK63002	SCH0083	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK63502	SCH0084	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK64002	SCH0085	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK65002	SCH0086	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK66002	SCH0087	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK71402	SCH0060	0.5	1.45	250	240	48" SS BRAID	Y	2	Y	Y
BK71702	SCH3142	0.5	1.95	250	240	48" SS BRAID	Y	2	Y	Y
BK71902	SCH0061	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK72402	SCH3242	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK72432	SCH0062	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK72902	SCH0063	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK73402	SCH0064	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK74402	SCH0065	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK75402	SCH0066	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK82102	SCH0088	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK82602	SCH0089	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y
BK83102	SCH0090	0.5	1.45	250	240	48" SS BRAID	Y	2	Y	Y
BK83602	SCH0091	0.5	1.95	250	240	48" SS BRAID	Y	2	Y	Y
BK86102	SCH0094	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK84102	SCH0092	0.5	2.5	450	240	48" SS BRAID	Y	2	Y	Y
BK85102	SCH0093	0.5	4.62	300	120	48" SS BRAID	Y	2	Y	Y

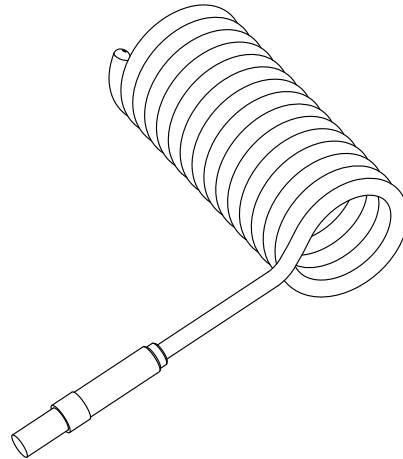
COIL HEATERS



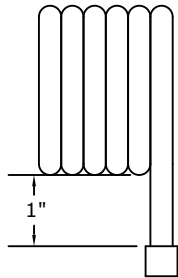
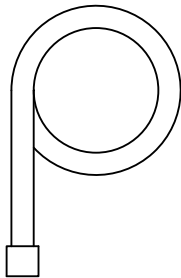
EXAMPLE: HCO-1/2X3-120-300-72FG-TC



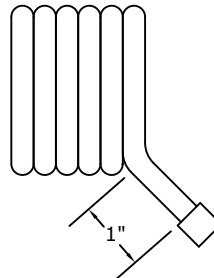
COIL HEATERS



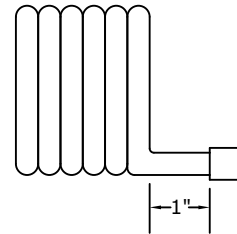
Tangential
Code: ST



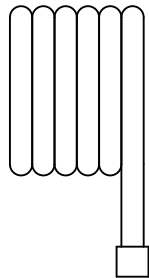
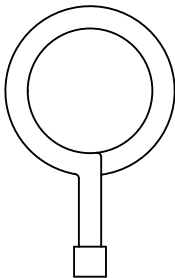
Tangential, 45° Bend
Code: 45ST



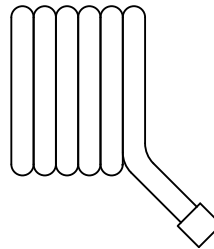
Tangential, 90° Bend
Code: 90ST



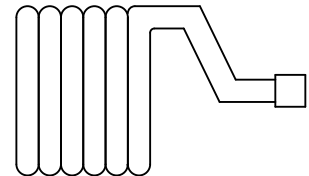
Radial
Code: LT



Radial, 45° Bend
Code: 45LT



Radial 90° Bend
Code: SPT



Axial
Code: AX

