

# Standard Coil Heater Configuration Chart

Coil Heater Type	Profile		Minimum Inside Diameter		Voltage	Maximum Ratings			Straight Heated Length		Thermo-couple		Sheath Material	
						Watt Density (per sq. inch)					Inbuilt*		SS321	Nickel
	inches	mm	inches	mm		Without Pressed on Sheath	With Pressed on Sheath	Pressed in Brass	inches	mm	J	K		
Micro Mini	0.039x.067	1.0x1.7	0.236	6.00	240	38.7	52	80	112.2	2850			●	●
Mini Flat	0.051x.090	1.3x2.3	0.236	6.00	240	38.7	52	80	112.2	2850			●	●
Mini Round	ø0.055	ø1.4	0.236	6.00	240	38.7	52	80	112.2	2850			●	●
Mini Round	ø0.070	ø1.8	0.236	6.00	240	38.7	52	80	112.2	2850			●	●
Square	0.118x.118	3.0x3.0	0.472	12.00	240	38.7	52	80	86.6	2200	●	●	●	
Flat	0.071x.126	1.8x3.2	0.472	12.00	240	38.7	52	80	86.6	2200			●	
Flat	0.087x.165	2.2x4.2	0.472	12.00	240	38.7	52	80	86.6	2200	●	●	●	
Flat	0.098x.134	2.5x3.4	0.472	12.00	240	38.7	52	80	86.6	2200	●	●	●	
Round	ø0.118	ø3.0	0.472	12.00	240	38.7	52	80	86.6	2200	●	●	●	
Round	ø0.125	ø3.18	0.472	12.00	240	38.7	52	80	86.6	2200	●	●	●	
Round	ø0.157	ø4.0	0.472	12.00	240	38.7	52	80	86.6	2200	●	●	●	
Maxi	0.181x.338	4.6x8.6	0.80	20.00	480	87	97	95	86.6	2200	●	●	●	

\*Externally wound thermocouples are available for all Nexthermal coil heaters.

Coil ID	Tolerance ID with Pressed on Sheath(mm)	Coil ID (mm)	Mini, Standard & Maxi ID Tolerance	
			<30mm Long	≥30mm Long
Mini	+0.05 to +0.10	6.5-12	-0.05 to -0.2	-0.1 to -0.3
Standard	+0.05 to +0.10	13-30	-0.1 to -0.3	-0.2 to -0.4
Maxi	+0.05 to +0.15	31-50	-0.2 to -0.4	-0.3 to -0.6

Clamping strap recommended above 2". over 50mm - specified on your drawing

Lead Options	Temp. Rating		Movement	Moisture
	°F	°C		
Teflon® (Standard)	500	260	Excellent	Excellent
High Temp. Fiberglass (Not Available on Minis)	932	500	Not Recommended	Not Recommended

Standard wattage tolerance for Nexthermal coil heaters is ± 10%. Premium wattage tolerance is ± 5%. Standardized heaters may be designed with tighter than published wattage tolerances. Consult Nexthermal Engineering. Hotlock and Axial Clamp heaters are available with ± 2% wattage tolerance.

Additional Options			Coil Heater Assemblies			Lead Protection		
Pressed on Sheaths		ID/OD Tube	Mini Coil Heaters		All Coil Heaters	Fiberglass Sleeve	Braided Metal Sleeve	Armor Cable
With Tab	Without Tab		Hotlock	Axial Clamp				
								

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