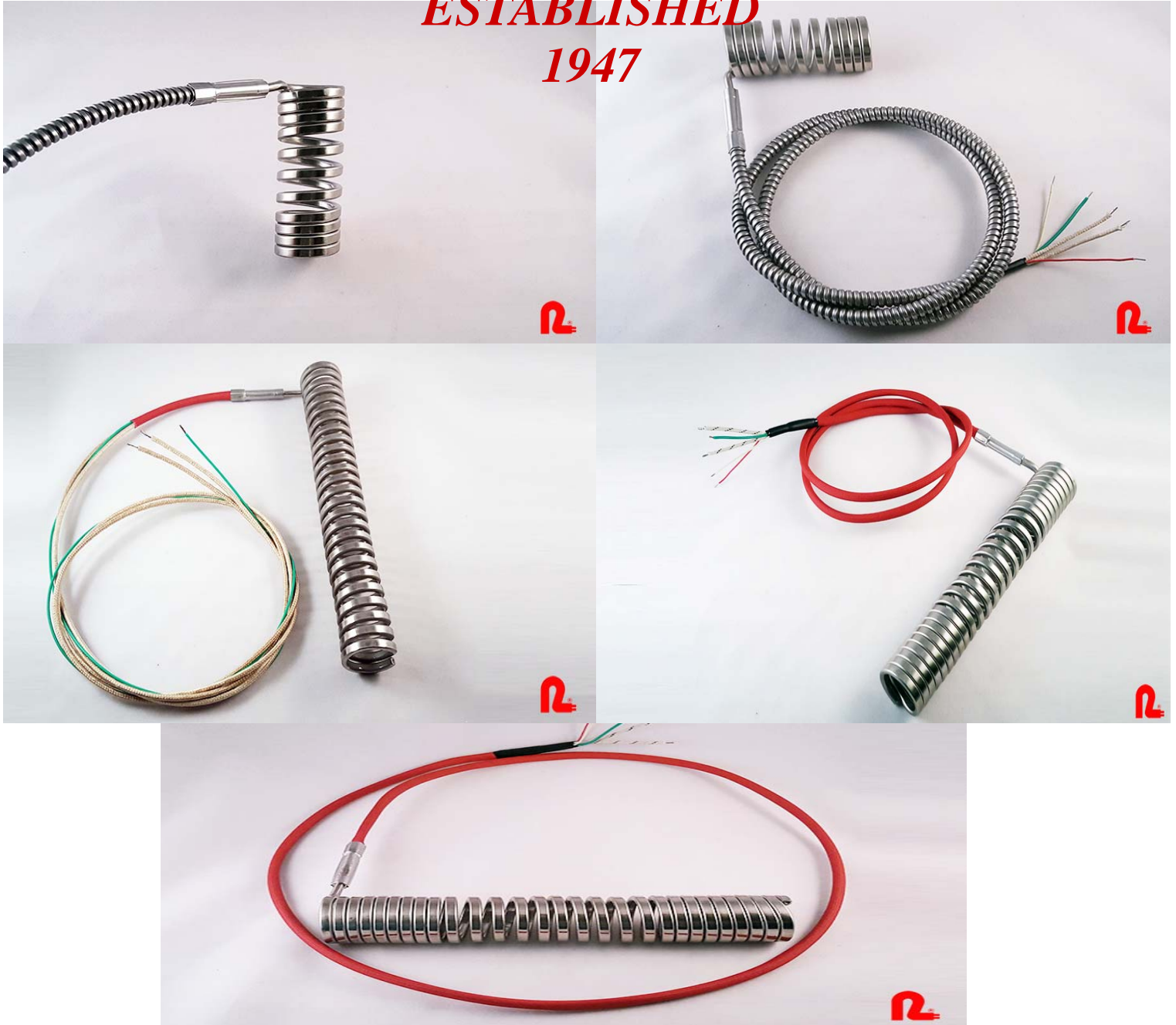




RAMA CORPORATION COILED NOZZLE HEATERS

*ESTABLISHED
1947*



RAMA CORPORATION

“INNOVATION THROUGH EXPERIENCE”

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RAMA CORPORATION COILED NOZZLE HEATERS

FEATURES:

RAMA's heaters are the ultimate design in coiled type heaters. their design and technical development gives them a longer lifespan than the competition, due to special features including:

- 100% more surface contact
- High Temperature connection
- Integrated Thermocouple
- Proportioned profile heating

RAMA's manufacturing methods surpass all other round or square designs. Many features are proprietary and were developed to give you the most efficient heating possible.

RAMA's coiled nozzle heaters are available in several sizes off the shelf, or customized to your order. Due to more durable construction and form fitting shape, our coiled nozzle heaters outlast the competition.

APPLICATIONS:

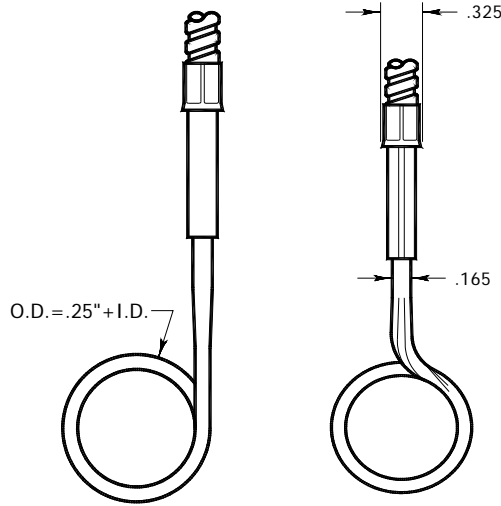
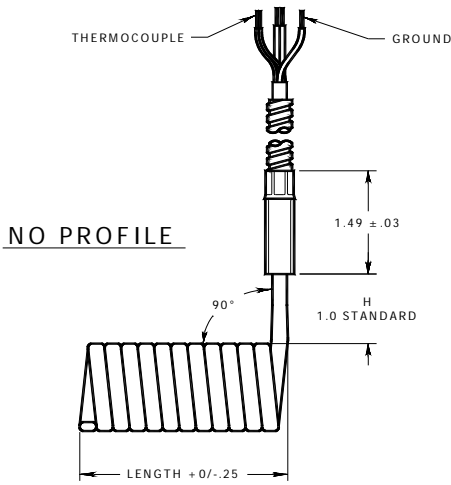
- Plastic Injection Molding Nozzles
- Spruce Bushings
- Die Casting Nozzles
- Metal Forming Punches
- Food Processing Equipment
- Glue Systems
- Scientific and Medical Device Industry
- Laminating and Printing Presses
- And Much More

SPECIAL NOTES:

- Standard leadwire length is 36", with 34" red fiberglass sleeving.
- Other options such as stainless steel braid, ground wire, stainless steel conduit are also available.
- Minimum profiled coil length is 1.50"
- Maximum non-profiled coiled length is 8.00"
- A tooling charge is required for a special flattened design other than our stocked ID's
- Special diameters may require a tooling charge
- Thermocouple junctions cannot be grounded
- Type 'K' thermocouple is available
- Diameters up to 1" are the flattened design, diameters over 1" are non-flattened designs
- Leadwire adder includes groundwire
- Consult factory for special bend configurations or other requirements, tooling charges, etc..

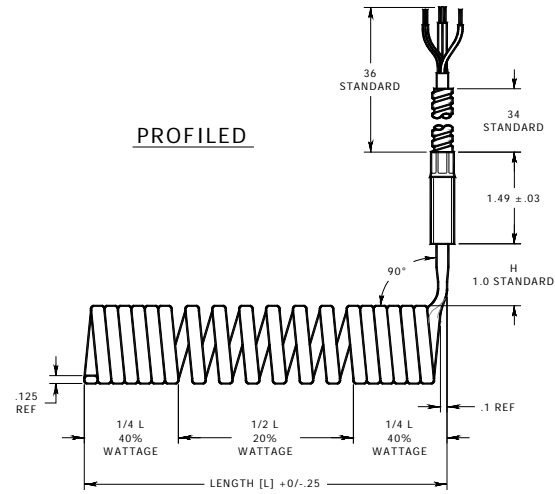


COILED DESIGN PARAMETERS



OPTIONAL TERMINATION

STANDARD TERMINATION



* Please specify termination and 'H' dimension when ordering *

BEND CONFIGURATIONS 'H' DIMENSION

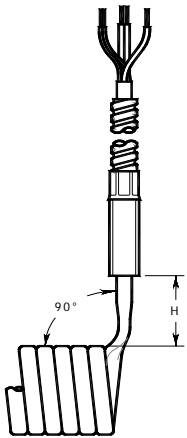


FIG. 1

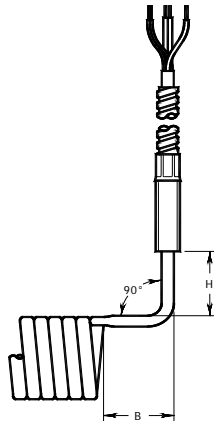


FIG. 2

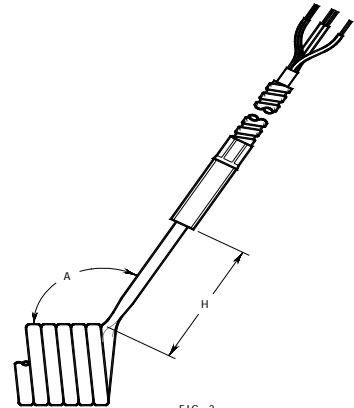


FIG. 3

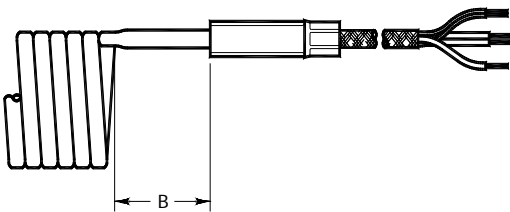


FIG. 4

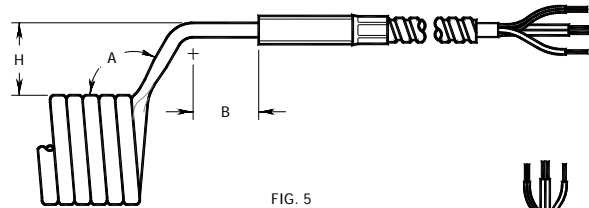


FIG. 5

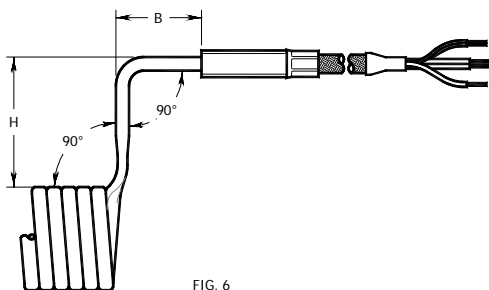


FIG. 6

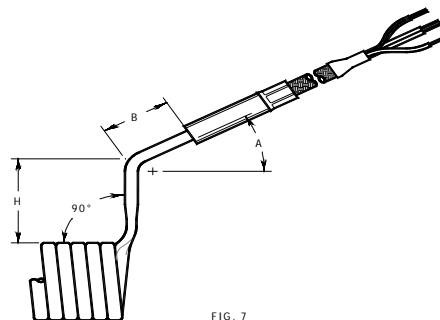


FIG. 7

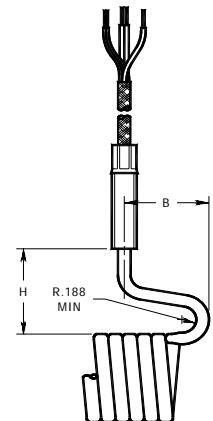


FIG. 8



COILED DESIGN PARAMETERS CONTINUED

VOLTAGE:

120V/240V (Standard)

STRAIGHT LENGTH:

85" Max

INSIDE DIAMETER/COILED LENGTH:

All designs greater than 3-1/2" long will be normally profiled

WATTAGE PERAMETERS:

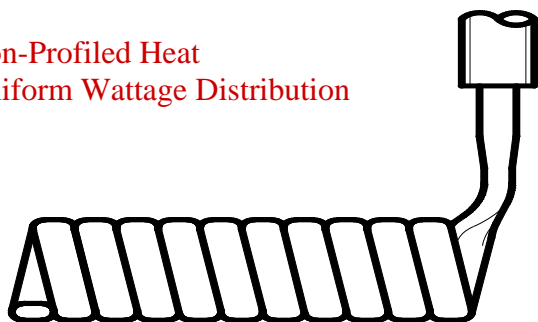
<u>Diameter</u>	<u>Minimum</u>	<u>Maximum</u>
.500"	160 Per Linear In	177 Per Linear In
.625"	164 Per Linear In	248 Per Linear In
.750"	145 Per Linear In	280 Per Linear In
.875"	143 Per Linear In	282 Per Linear In
.984" or 1"	128 Per Linear In	317 Per Linear In

NON-PROFILED (FLATTENED)

PROFILED (FLATTENED)

<u>ID (Nom)</u>	<u>Max Profiled Heat</u>	<u>ID (Nom)</u>	<u>Max Profiled Heat</u>
.500"	7.75"	.500"	10.25"
.625"	6.62"	.625"	8.75"
.750"	5.50"	.750"	7.25"
.875"	4.75"	.875"	6.25"
1.00"	4.25"	1.00"	5.50"
12mm	8.00"	12mm	10.63"
12.5mm	7.81"	12.5mm	10.31"
16mm	6.43"	16mm	8.50"
20mm	5.25"	20mm	7.00"
22mm	4.87"	22mm	6.43"

Non-Profiled Heat
Uniform Wattage Distribution



Profiled Heat
Profiled Wattage Distribution

