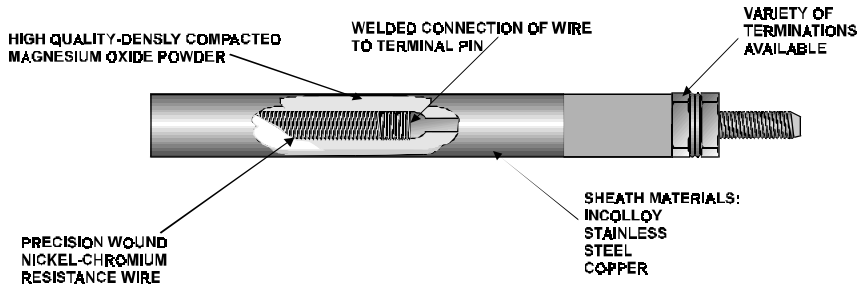
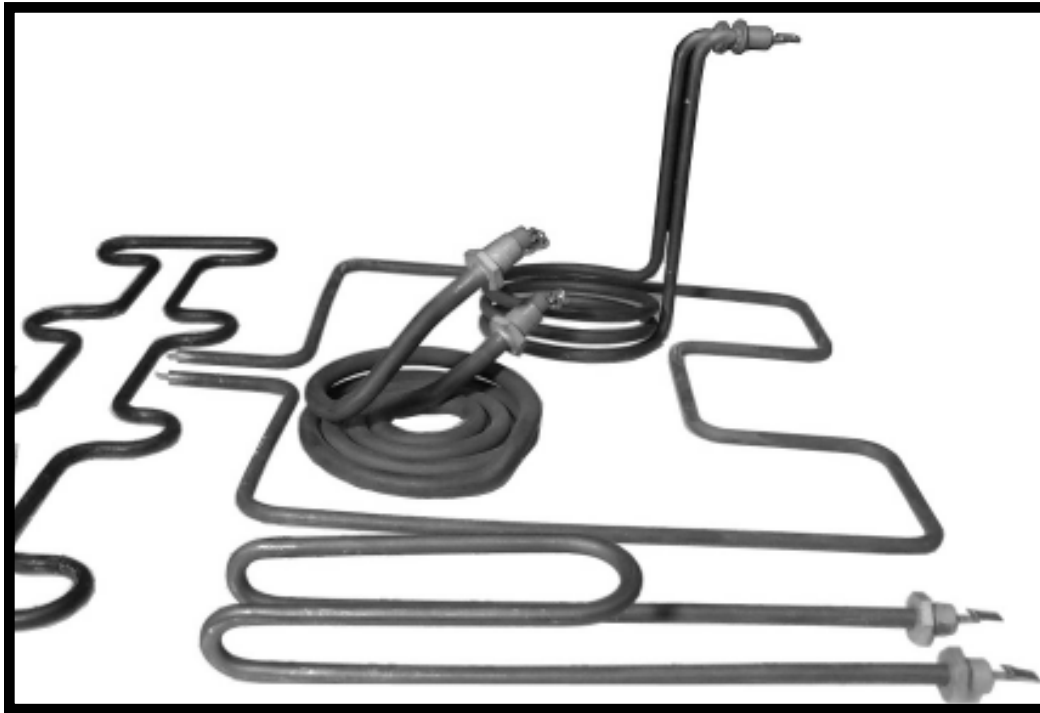


# TUBULAR HEATERS



SHEATH MATERIAL	MAX SHEATH TEMP	MAX W/SQ.in	TYPICAL APPLICATION
INCOLOY	1500°F / 815°C	40	CORROSIVE LIQUID, AIR, CLAMP-ON
STAINLESS STEEL	1200°F / 650°C	30	CORROSIVE LIQUID, FOOD PROCESSING
STEEL	750°F / 400°C	22	OIL IMMERSION, CAST-IN
COPPER	350°F / 175°C	55	WATER, NON-CORROSIVE LIQUIDS

## FEATURES

- 80/20 NICKEL CHROME RESISTANCE WIRE
- HIGH PURITY MAGNESIUM OXIDE FILLER RECOMPACTED BENDS
- ANNEALING - STANDARD
- LONG LIFE AT ELEVATED TEMPERATURES
- COPPER OR STAINLESS STEEL TERMINALS

## APPLICATIONS

- MOLDS AND DIES RADIANT HEATING
- PLATENS SEALING MACHINERY
- LIQUIDS OVENS
- GASSES SOLIDS

## PRECISION-WOUND RESISTANCE WIRE

Nickel-chromium wire is sized by computer and precisely wound to provide the exact heat required. The wire is washed and baked to eliminate contamination and give the user a longer lived heater. Several tests during production guarantee final resistance within specified tolerances.

## SELECTED WELD CONNECTION

The wire-to-pin connection is made by one of several welding techniques, selected for optimum life for the heater size and rating.

## HIGH DIELECTRIC INSULATION

The resistance wire assembly is centered into the heater sheath and electrically insulated with magnesium oxide powder. The purity of this powder is critical to heater life. This insulation is compacted to a computer-determined density when the unit diameter is reduced by rolling. This increases its excellent dielectric strength and greatly improves its thermal conductance. Bends are recompact to eliminate potential insulation breaks.

## STANDARD SHEATH MATERIALS

Copper, steel and incoloy are available in seven standard diameters. Stainless steel is available in .315', .430', .475', .490' and .625'. All heaters are fully annealed unless otherwise specified.

BEND FORMATIONS

FIG.1

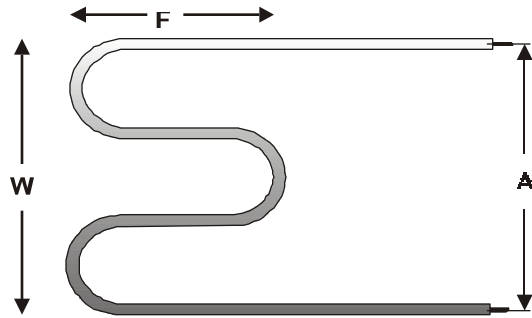


FIG.2

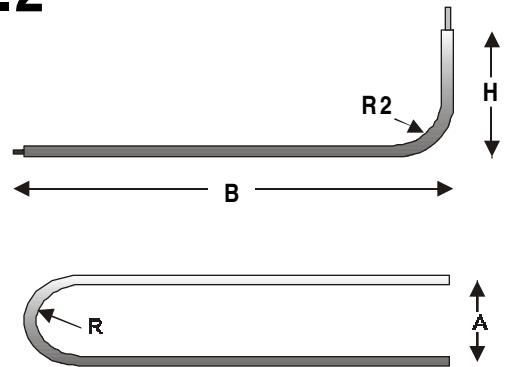


FIG.3

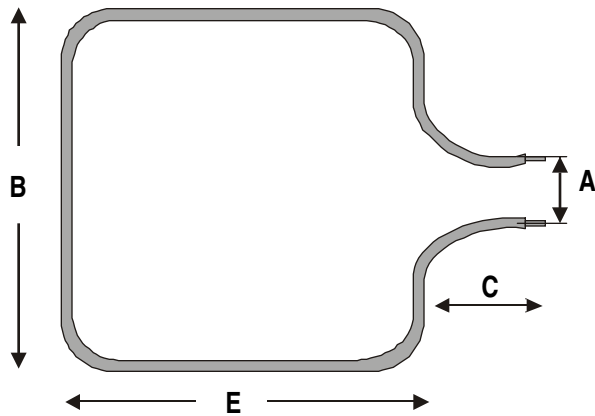


FIG.4

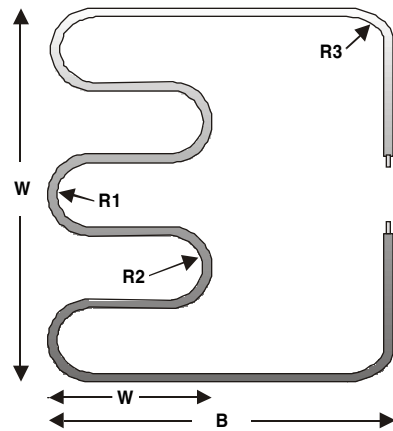


FIG.5



FIG.6

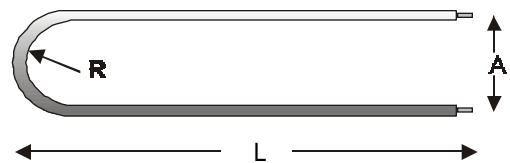
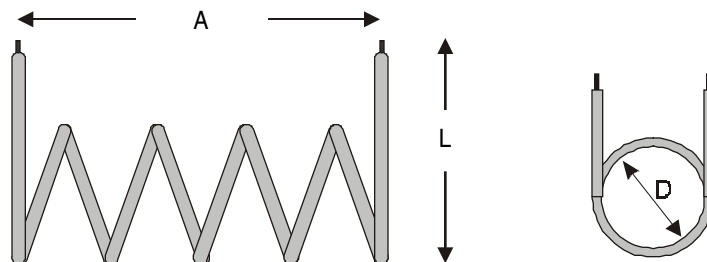
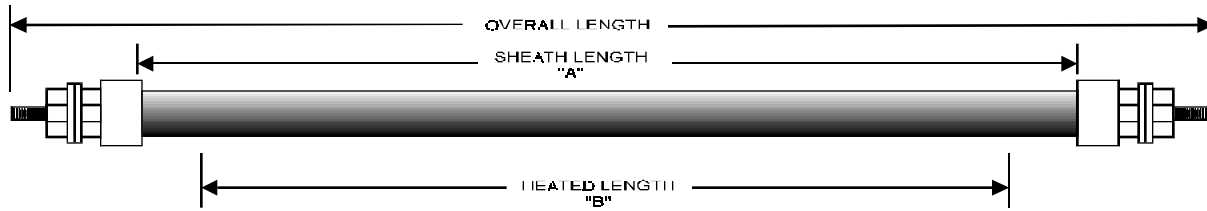


FIG.7



# TUBULAR HEATER STOCK LIST



### 0.315"DIA INCOLLOY - 35 W/Sq.in.

WATTS	VOLTS	"A"	"B"	PART #
500	115	20in	15in	TUB -20501
500	230	20	15	-20502
750	115	26	21	-26751
750	230	26	21	-26752
1000	115	34	29	-34101
1000	230	34	29	-34102
1250	115	42	37	-42121
1250	230	42	37	-42122
1500	115	48	43	-48151
1500	230	48	43	-48152
1750	230	54	49	-54172
2000	230	62	57	-62202
2500	230	78	73	-78252
3000	230	96	86	-95302

### 0.440"DIA INCOLLOY - 30 W/Sq.in.

WATTS	VOLTS	"A"	"B"	PART #
3000	575	82in	72in	TUB -82305
4000	230	106	94	-106402
4000	575	106	94	-106405
5000	575	130	120	-130505

### 0.440"DIA INCOLLOY - 40 W/Sq.in.

WATTS	VOLTS	"A"	"B"	PART #
4500	575	96in	82in	TUB -96455
6000	575	122	108	-122605