



## 3/8" Dia. Heart Cross-Section

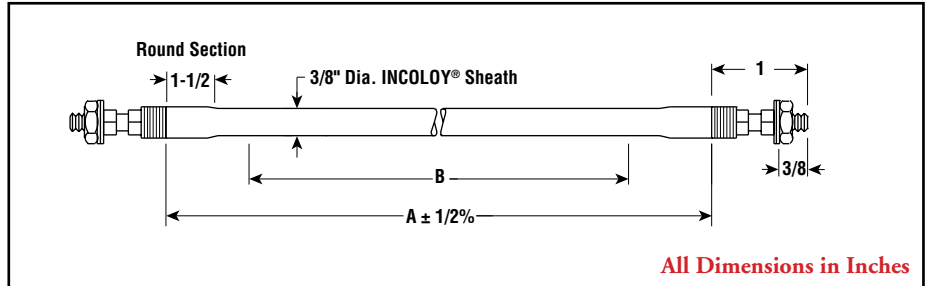


TUBULAR



- INCOLOY® Sheath
- 300 - 1,850 Watts
- 120, 240 and 480 Volt
- 30 W/in<sup>2</sup>
- 1600°F Max. Sheath Temp.

### Dimensions



### Applications

High element surface temperature clamp-on or air heating applications or where extreme rigidity is required.

### Advantages

More uniform surface temperatures and resistance to deformation.

### Features

**Type 3 Terminals** — Heliarc-welded to the cold pin. See terminal detail drawing in the Tubular Heater Overview section.

**Work Temperatures** — See Tubular Heater Overview section.

**Bending** — Customer's minimum inside bending radius is 1-7/8". See bending inside requirements in the Tubular Heater Overview section.

### Specifications and Ordering Information

Watts	Volts	W/in <sup>2</sup>	Dimensions (In.)		INCOLOY® Sheath			Wt. (Lbs.)
			Sheath A	Sheath B	Model	Stock	PCN	
300	120	30	16	9-1/2	TI-1648	NS	282263	0.4
350	120	30	18	11-1/2	TI-1848	NS	282271	0.4
450	120	30	20	13-1/2	TI-2048	NS	282280	0.4
500	120	30	22	15-1/2	TI-2248	NS	282298	0.4
650	120	30	25	18-1/2	TI-2548	NS	282300	0.4
650	240	30	25	18-1/2	TI-2548	NS	282319	0.4
700	120	30	27	20-1/2	TI-2748	NS	282327	0.4
700	240	30	27	20-1/2	TI-2748	NS	282335	0.4
750	120	30	28	21-1/2	TI-2848	NS	282343	0.8
750	240	30	28	21-1/2	TI-2848	NS	282351	0.8
800	120	30	30	23-1/2	TI-3048	NS	282360	0.8
800	240	30	30	23-1/2	TI-3048	NS	282370	0.8
850	120	30	32	25-1/2	TI-3248	NS	282386	0.8
850	240	30	32	25-1/2	TI-3248	NS	282394	0.8
900	120	30	34	27-1/2	TI-3448	NS	282407	0.8
900	240	30	34	27-1/2	TI-3448	NS	282415	0.8
1,000	120	30	36	29-1/2	TI-3648	NS	282423	0.8
1,000	240	30	36	29-1/2	TI-3648	NS	282431	0.8
1,050	120	30	38	31-1/2	TI-3848	NS	282440	0.8
1,050	240	30	38	31-1/2	TI-3848	NS	282458	0.8
1,100	120	30	40	33-1/2	TI-4048	NS	282466	1
1,100	240	30	40	33-1/2	TI-4048	NS	282474	1
1,200	120	30	42	35-1/2	TI-4248	NS	282482	1
1,200	240	30	42	35-1/2	TI-4248	NS	282490	1
1,250	120	30	44	37-1/2	TI-4448	NS	282503	1
1,250	240	30	44	37-1/2	TI-4448	NS	282511	1
1,300	120	30	46	39-1/2	TI-4648	NS	282520	1
1,300	240	30	46	39-1/2	TI-4648	NS	282538	1
1,350	120	30	48	41-1/2	TI-4848	NS	282546	1
1,350	240	30	48	41-1/2	TI-4848	NS	282554	1
1,450	120	30	50	43-1/2	TI-5048	NS	282562	1
1,450	240	30	50	43-1/2	TI-5048	NS	282570	1
1,450	480	30	50	43-1/2	TI-5048	NS	173462	1
1,550	120	30	54	47-1/2	TI-5448	NS	282589	1.3
1,550	240	30	54	47-1/2	TI-5448	NS	282597	1.3
1,550	480	30	54	47-1/2	TI-5448	NS	173470	1.3
1,700	120	30	58	51-1/2	TI-5848	NS	282600	1.3
1,700	240	30	58	51-1/2	TI-5848	NS	282618	1.3
1,700	480	30	58	51-1/2	TI-5848	NS	173489	1.3
1,850	120	30	62	55-1/2	TI-6248	NS	282626	1.3
1,850	240	30	62	55-1/2	TI-6248	NS	282634	1.3
1,850	480	30	62	55-1/2	TI-6248	NS	173497	1.3

**Stock Status:** S = stock NS = non-stock  
**To Order**—Specify model, PCN, watts, volts and quantity.

# Components

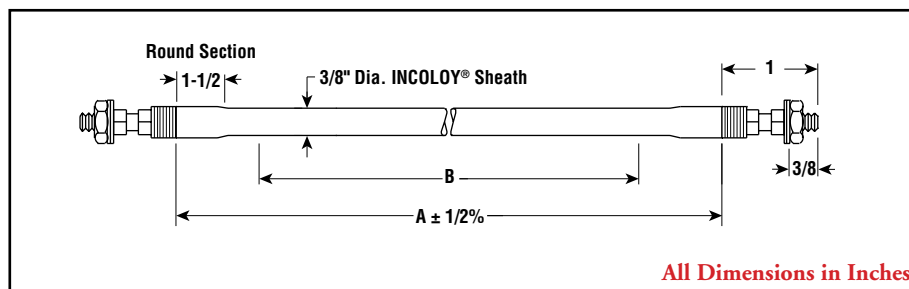


## 3/8" Dia. Heart Cross-Section (cont'd.)



- INCOLOY® Sheath
- 1,950 - 5,350 Watts
- 120, 240 and 480 Volt
- 30 W/in<sup>2</sup>
- 1600°F Max. Sheath Temp.

### Dimensions



### Applications

High element surface temperature clamp-on, or air heating applications, or where extreme rigidity is required.

### Advantages

More uniform surface temperatures and resistance to deformation.

### Features

**Type 3 Terminals** — Heliarc-welded to the cold pin. See terminal detail drawing in the Tubular Heater Overview section.

**Work Temperatures** — See Tubular Heater Overview section.

**Bending** — Customer's minimum inside bending radius is 1-7/8". See bending requirements in the Tubular Heater Overview section.

### Specifications and Ordering Information

Watts	Volts	W/in <sup>2</sup>	Dimensions (In.)		INCOLOY® Sheath			Wt. (Lbs.)
			Sheath A	Sheath B	Model	Stock	PCN	
1,950	120	30	66	59-1/2	TI-6648	NS	282642	1.3
1,950	240	30	66	59-1/2	TI-6648	NS	282650	1.3
1,950	480	30	66	59-1/2	TI-6648	NS	173500	1.3
2,100	120	30	70	63-1/2	TI-7048	NS	282669	1.3
2,100	240	30	70	63-1/2	TI-7048	NS	282677	1.3
2,100	480	30	70	63-1/2	TI-7048	NS	173518	1.3
2,250	120	30	74	67-1/2	TI-7448	NS	173526	1.3
2,250	240	30	74	67-1/2	TI-7448	NS	282685	1.3
2,250	480	30	74	67-1/2	TI-7448	NS	173534	1.3
2,350	120	30	78	71-1/2	TI-7848	NS	173542	1.8
2,350	240	30	78	71-1/2	TI-7848	NS	282693	1.8
2,350	480	30	78	71-1/2	TI-7848	NS	173550	1.8
2,500	240	30	82	75-1/2	TI-8248	NS	282706	1.8
2,500	480	30	82	75-1/2	TI-8248	NS	173569	1.8
2,600	240	30	86	79-1/2	TI-8648	NS	282714	1.8
2,600	480	30	86	79-1/2	TI-8648	NS	173577	1.8
2,750	240	30	90	83-1/2	TI-9048	NS	282722	1.8
2,750	480	30	90	83-1/2	TI-9048	NS	173585	1.8
2,900	240	30	94	87-1/2	TI-9448	NS	282730	1.8
2,900	480	30	94	87-1/2	TI-9448	NS	173593	1.8
3,000	240	30	98	91-1/2	TI-9848	NS	282749	1.8
3,000	480	30	98	91-1/2	TI-9848	NS	173606	1.8
3,150	240	30	102	95-1/2	TI-10248	NS	282757	2.5
3,150	480	30	102	95-1/2	TI-10248	NS	173614	2.5
3,300	240	30	106	99-1/2	TI-10648	NS	282765	2.5
3,300	480	30	106	99-1/2	TI-10648	NS	173622	2.5
3,500	240	30	112	105-1/2	TI-11248	NS	282773	2.5
3,500	480	30	112	105-1/2	TI-11248	NS	173630	2.5
3,650	240	30	118	111-1/2	TI-11848	NS	173649	2.5
3,650	480	30	118	111-1/2	TI-11848	NS	173657	2.5
3,900	240	30	124	117-1/2	TI-12448	NS	173665	2.5
3,900	480	30	124	117-1/2	TI-12448	NS	173673	2.5
4,100	240	30	130	123-1/2	TI-13048	NS	173681	2.5
4,100	480	30	130	123-1/2	TI-13048	NS	173690	2.5
4,300	240	30	136	129-1/2	TI-13648	NS	173702	3.8
4,300	480	30	136	129-1/2	TI-13648	NS	173710	3.8
4,500	240	30	142	135-1/2	TI-14248	NS	173729	3.8
4,500	480	30	142	135-1/2	TI-14248	NS	173737	3.8
4,700	480	30	148	141-1/2	TI-14848	NS	173745	3.8
4,950	480	30	156	149-1/2	TI-15648	NS	173753	3.8
5,200	480	30	164	157-1/2	TI-16448	NS	173761	3.8
5,350	480	30	172	165-1/2	TI-17248	NS	173770	3.8

**Stock Status:** S = stock NS = non-stock  
**To Order**—Specify model, PCN, watts, volts and quantity.