



3/8" Dia. Heart Cross-Section

- Steel Sheath
- 225 - 1,500 Watts
- 120, 240 and 480 Volt
- 20 W/In²
- 750°F Max. Sheath Temp.

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

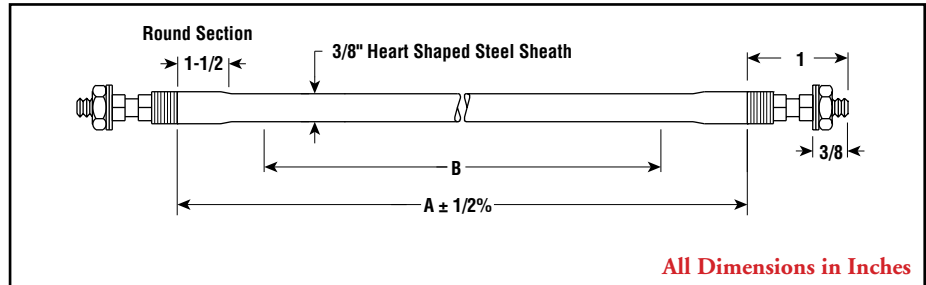
Type 3 Terminals — Heliarc-welded to the cold pin. See terminal detail drawing in the Tubular Heater Overview section.

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.



Dimensions



Specifications and Ordering Information

Watts	Volts	W/In ²	Dimensions (In.)		Steel Sheath			Wt. (Lbs.)
			Sheath A	Sheath B	Model	Stock	PCN	
225	120	20	16	9-1/2	TS-1648	NS	282845	0.4
250	120	20	18	11-1/2	TS-1848	NS	282853	0.4
300	120	20	20	13-1/2	TS-2048	NS	282861	0.4
350	120	20	22	15-1/2	TS-2248	NS	172750	0.4
450	120	20	25	18-1/2	TS-2548	NS	282870	0.4
500	120	20	27	20-1/2	TS-2748	NS	282888	0.4
500	240	20	27	20-1/2	TS-2748	NS	282896	0.4
500	120	20	28	21-1/2	TS-2848	NS	282909	0.8
500	240	20	28	21-1/2	TS-2848	NS	282917	0.8
550	120	20	30	23-1/2	TS-3048	NS	282925	0.8
550	240	20	30	23-1/2	TS-3048	NS	172769	0.8
600	120	20	32	25-1/2	TS-3248	NS	282933	0.8
600	240	20	32	25-1/2	TS-3248	NS	172777	0.8
650	120	20	34	27-1/2	TS-3448	NS	172785	0.8
650	240	20	34	27-1/2	TS-3448	NS	172793	0.8
700	120	20	36	29-1/2	TS-3648	NS	282941	0.8
700	240	20	36	29-1/2	TS-3648	NS	282950	0.8
750	120	20	38	31-1/2	TS-3848	NS	282968	0.8
750	240	20	38	31-1/2	TS-3848	NS	282976	0.8
800	120	20	40	33-1/2	TS-4048	NS	172806	1
800	240	20	40	33-1/2	TS-4048	NS	282984	1
850	120	20	42	35-1/2	TS-4248	NS	172814	1
850	240	20	42	35-1/2	TS-4248	NS	172822	1
900	120	20	44	37-1/2	TS-4448	NS	172830	1
900	240	20	44	37-1/2	TS-4448	NS	282992	1
950	120	20	46	39-1/2	TS-4648	NS	172849	1
950	240	20	46	39-1/2	TS-4648	NS	172857	1
1,000	120	20	48	41-1/2	TS-4848	NS	283004	1
1,000	240	20	48	41-1/2	TS-4848	NS	283012	1
1,000	480	20	48	41-1/2	TS-4848	NS	172865	1
1,050	120	20	50	43-1/2	TS-5048	NS	172873	1
1,050	240	20	50	43-1/2	TS-5048	NS	172881	1
1,050	480	20	50	43-1/2	TS-5048	NS	172890	1
1,100	120	20	54	47-1/2	TS-5448	NS	283020	1.3
1,100	240	20	54	47-1/2	TS-5448	NS	172902	1.3
1,100	480	20	54	47-1/2	TS-5448	NS	172910	1.3
1,200	120	20	58	51-1/2	TS-5848	NS	172929	1.3
1,200	240	20	58	51-1/2	TS-5848	NS	283039	1.3
1,200	480	20	58	51-1/2	TS-5848	NS	172937	1.3
1,300	120	20	62	55-1/2	TS-6248	NS	172945	1.3
1,300	240	20	62	55-1/2	TS-6248	NS	283047	1.3
1,300	480	20	62	55-1/2	TS-6248	NS	172953	1.3
1,400	120	20	66	59-1/2	TS-6648	NS	172961	1.3
1,400	240	20	66	59-1/2	TS-6648	NS	172970	1.3
1,400	480	20	66	59-1/2	TS-6648	NS	172988	1.3
1,500	120	20	70	63-1/2	TS-7048	NS	283055	1.3
1,500	240	20	70	63-1/2	TS-7048	NS	172996	1.3
1,500	480	20	70	63-1/2	TS-7048	NS	173008	1.3

Stock Status: S = stock NS = non-stock
To Order—Specify model, PCN, watts, volts and quantity. If element is to be bent, specify "must be annealed".

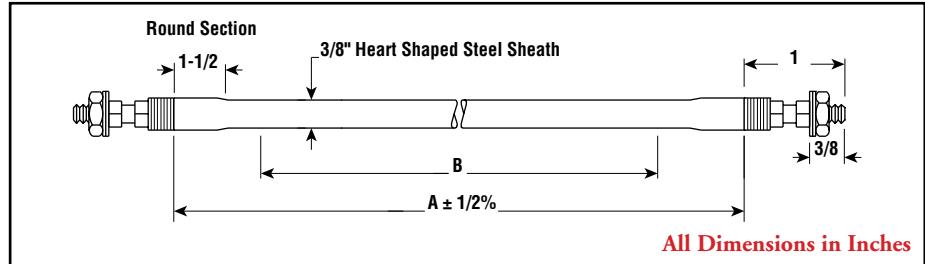
Components

TS 

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



Dimensions



- Steel Sheath
- 1,600 - 3,800 Watts
- 120, 240 and 480 Volt
- 20 W/in²
- 750°F Max. Sheath Temp.

Specifications and Ordering Information

Applications

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Advantages

More uniform surface temperatures and resistance to deformation.

Features

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Work Temperatures — See Tubular Heater Overview section.

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

Watts	Volts	W/in ²	Dimensions (In.)		Steel Sheath			Wt. (Lbs.)
			Sheath A	Sheath B	Model	Stock	PCN	
1,600	120	20	74	67-1/2	TS-7448	NS	173016	1.3
1,600	240	20	74	67-1/2	TS-7448	NS	173024	1.3
1,600	480	20	74	67-1/2	TS-7448	NS	173032	1.3
1,700	120	20	78	71-1/2	TS-7848	NS	173040	1.8
1,700	240	20	78	71-1/2	TS-7848	NS	173059	1.8
1,700	480	20	78	71-1/2	TS-7848	NS	173067	1.8
1,800	120	20	82	75-1/2	TS-8248	NS	173075	1.8
1,800	240	20	82	75-1/2	TS-8248	NS	173083	1.8
1,800	480	20	82	75-1/2	TS-8248	NS	173091	1.8
1,850	120	20	86	79-1/2	TS-8648	NS	173104	1.8
1,850	240	20	86	79-1/2	TS-8648	NS	173112	1.8
1,850	480	20	86	79-1/2	TS-8648	NS	173120	1.8
1,950	120	20	90	83-1/2	TS-9048	NS	173139	1.8
1,950	240	20	90	83-1/2	TS-9048	NS	173147	1.8
1,950	480	20	90	83-1/2	TS-9048	NS	173155	1.8
2,050	120	20	94	87-1/2	TS-9448	NS	173163	1.8
2,050	240	20	94	87-1/2	TS-9448	NS	173171	1.8
2,050	480	20	94	87-1/2	TS-9448	NS	173180	1.8
2,150	120	20	98	91-1/2	TS-9848	NS	173198	1.8
2,150	240	20	98	91-1/2	TS-9848	NS	173200	1.8
2,150	480	20	98	91-1/2	TS-9848	NS	173219	1.8
2,250	120	20	102	95-1/2	TS-10248	NS	173227	2.5
2,250	240	20	102	95-1/2	TS-10248	NS	173235	2.5
2,250	480	20	102	95-1/2	TS-10248	NS	173243	2.5
2,350	240	20	106	99-1/2	TS-10648	NS	173251	2.5
2,350	480	20	106	99-1/2	TS-10648	NS	173260	2.5
2,500	240	20	112	105-1/2	TS-11248	NS	283063	2.5
2,500	480	20	112	105-1/2	TS-11248	NS	173278	2.5
2,600	240	20	118	111-1/2	TS-11848	NS	173286	2.5
2,600	480	20	118	111-1/2	TS-11848	NS	173294	2.5
2,750	240	20	124	117-1/2	TS-12448	NS	173307	2.5
2,750	480	20	124	117-1/2	TS-12448	NS	173315	2.5
2,900	240	20	130	123-1/2	TS-13048	NS	173323	2.5
2,900	480	20	130	123-1/2	TS-13048	NS	173331	2.5
3,050	240	20	136	129-1/2	TS-13648	NS	173340	3.3
3,050	480	20	136	129-1/2	TS-13648	NS	173358	3.3
3,200	240	20	142	135-1/2	TS-14248	NS	173366	3.3
3,200	480	20	142	135-1/2	TS-14248	NS	173374	3.3
3,350	240	20	148	141-1/2	TS-14848	NS	173382	3.3
3,350	480	20	148	141-1/2	TS-14848	NS	173390	3.3
3,550	240	20	156	149-1/2	TS-15648	NS	173403	3.3
3,550	480	20	156	149-1/2	TS-15648	NS	173411	3.3
3,700	240	20	164	157-1/2	TS-16448	NS	173420	3.3
3,700	480	20	164	157-1/2	TS-16448	NS	173438	3.3
3,800	240	20	172	165-1/2	TS-17248	NS	173446	3.3
3,800	480	20	172	165-1/2	TS-17248	NS	173454	3.3

Stock Status:

S = stock NS = non-stock

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