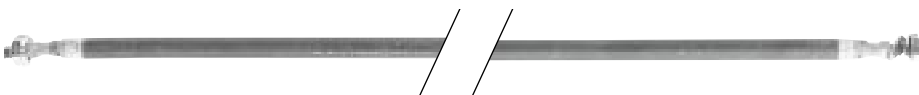


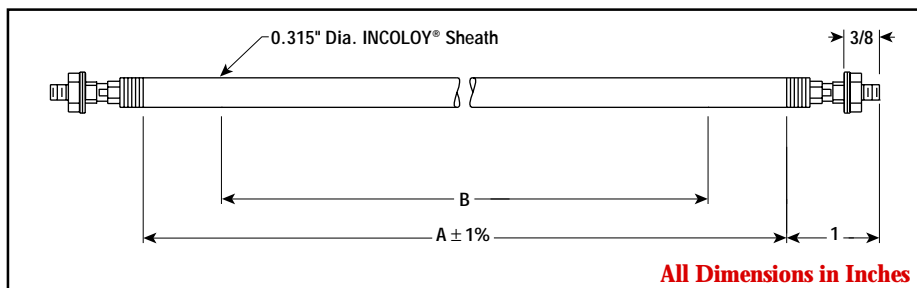
TRI

.315" Dia. Round Cross-Section



- INCOLOY® Sheath
- 275 - 1,450 Watts
- 120, 240 and 480 Volt
- 30 W/in²
- 1600°F Max. Sheath Temp.

Dimensions



Applications

Versatile tubular elements can be designed for use in most applications. See guidelines in the Tubular Heater Overview section.

Advantages

The metal sheath isolates and protects the resistor wire from the environment. At the same time it maximizes heat transfer capability to the work. Tubular elements can be bent to put the heat where it works best.

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 1-1/16". See bending requirements in the Tubular Heater Overview section.

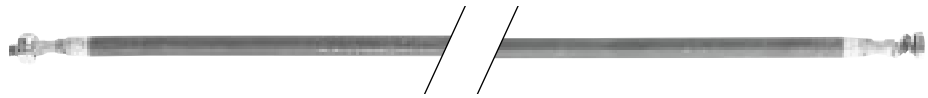
Specifications and Ordering Information

| Watts | Volts | W/in ² | Dimensions (In.) | | INCOLOY® Sheath | | | Wt. (Lbs.) |
|-------|-------|-------------------|------------------|----------|-----------------|-------|--------|------------|
| | | | Sheath A | Heated B | Model | Stock | PCN | |
| 275 | 120 | 30 | 16 | 9-1/4 | TRI-1648 | AS | 281519 | 0.4 |
| 350 | 120 | 30 | 18 | 11-1/4 | TRI-1848 | AS | 281527 | 0.4 |
| 400 | 120 | 30 | 20 | 13-1/4 | TRI-2048 | AS | 281535 | 0.4 |
| 500 | 120 | 30 | 22 | 15-1/4 | TRI-2248 | AS | 281543 | 0.5 |
| 650 | 120 | 30 | 25 | 18-1/4 | TRI-2548 | AS | 281551 | 0.6 |
| 650 | 240 | 30 | 25 | 18-1/4 | TRI-2548 | AS | 281560 | 0.6 |
| 700 | 120 | 30 | 27 | 20-1/4 | TRI-2748 | AS | 281578 | 0.7 |
| 700 | 240 | 30 | 27 | 20-1/4 | TRI-2748 | AS | 281586 | 0.7 |
| 625 | 120 | 30 | 28 | 21-1/4 | TRI-2848 | AS | 281594 | 0.8 |
| 625 | 240 | 30 | 28 | 21-1/4 | TRI-2848 | AS | 281607 | 0.8 |
| 800 | 120 | 30 | 30 | 23-1/4 | TRI-3048 | AS | 281615 | 0.8 |
| 800 | 240 | 30 | 30 | 23-1/4 | TRI-3048 | AS | 281623 | 0.8 |
| 750 | 120 | 30 | 32 | 25-1/4 | TRI-3248 | AS | 281631 | 0.8 |
| 750 | 240 | 30 | 32 | 25-1/4 | TRI-3248 | AS | 281640 | 0.8 |
| 900 | 120 | 30 | 34 | 27-1/4 | TRI-3448 | AS | 281658 | 0.8 |
| 900 | 240 | 30 | 34 | 27-1/4 | TRI-3448 | AS | 281666 | 0.8 |
| 850 | 120 | 30 | 36 | 29-1/4 | TRI-3648 | NS | 176591 | 0.8 |
| 850 | 240 | 30 | 36 | 29-1/4 | TRI-3648 | AS | 281674 | 0.8 |
| 1,050 | 120 | 30 | 38 | 31-1/4 | TRI-3848 | AS | 281682 | 0.9 |
| 1,050 | 240 | 30 | 38 | 31-1/4 | TRI-3848 | AS | 281690 | 0.9 |
| 975 | 120 | 30 | 40 | 33-1/4 | TRI-4048 | AS | 281703 | 1 |
| 975 | 240 | 30 | 40 | 33-1/4 | TRI-4048 | AS | 281711 | 1 |
| 1,200 | 120 | 30 | 42 | 35-1/4 | TRI-4248 | AS | 281720 | 1 |
| 1,200 | 240 | 30 | 42 | 35-1/4 | TRI-4248 | AS | 281738 | 1 |
| 1,250 | 120 | 30 | 44 | 37-1/4 | TRI-4448 | NS | 281746 | 1 |
| 1,250 | 240 | 30 | 44 | 37-1/4 | TRI-4448 | AS | 281754 | 1 |
| 1,150 | 120 | 30 | 46 | 39-1/4 | TRI-4648 | NS | 176604 | 1 |
| 1,150 | 240 | 30 | 46 | 39-1/4 | TRI-4648 | AS | 281762 | 1 |
| 1,150 | 480 | 30 | 46 | 39-1/4 | TRI-4648 | NS | 176612 | 1 |
| 1,350 | 120 | 30 | 48 | 41-1/4 | TRI-4848 | AS | 281770 | 1.1 |
| 1,350 | 240 | 30 | 48 | 41-1/4 | TRI-4848 | AS | 281789 | 1.1 |
| 1,450 | 120 | 30 | 50 | 43-1/4 | TRI-5048 | AS | 281797 | 1.2 |
| 1,450 | 240 | 30 | 50 | 43-1/4 | TRI-5048 | AS | 281800 | 1.2 |
| 1,325 | 120 | 30 | 52 | 45-1/4 | TRI-5248 | NS | 176620 | 1.3 |
| 1,325 | 240 | 30 | 52 | 45-1/4 | TRI-5248 | AS | 281818 | 1.3 |
| 1,325 | 480 | 30 | 52 | 45-1/4 | TRI-5248 | NS | 176639 | 1.3 |

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

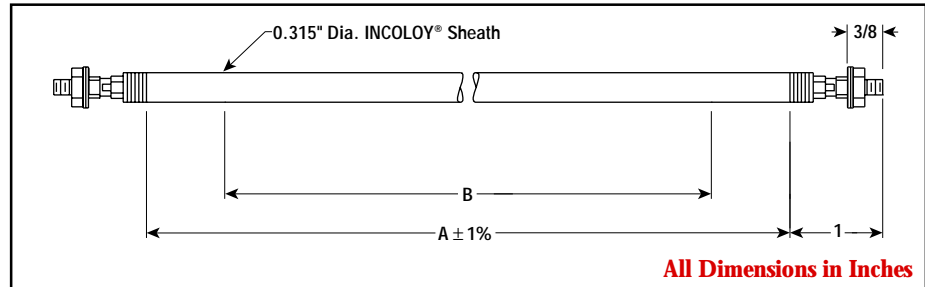
TRI

.315" Dia. Round Cross-Section (*cont'd.*)



- INCOLOY® Sheath
- 1,550 - 3,150 Watts
- 120, 240 and 480 Volt
- 30 W/In²
- 1600°F Max. Sheath Temp.

Dimensions



Applications

Versatile tubular elements can be designed for use in most applications. See guidelines in the Tubular Heater Overview section.

Advantages

The metal sheath isolates and protects the resistor wire from the environment. At the same time it maximizes heat transfer capability to the work. Tubular elements can be bent to put the heat where it works best.

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 1-1/16". See bending requirements in the Tubular Heater Overview section.

Specifications and Ordering Information

| Watts | Volts | W/In ² | Dimensions (In.) | | INCOLOY® Sheath | | | Wt. (Lbs.) |
|-------|-------|-------------------|------------------|----------|-----------------|-------|--------|------------|
| | | | Sheath A | Heated B | Model | Stock | PCN | |
| 1,550 | 120 | 30 | 54 | 47-1/4 | TRI-5448 | AS | 281826 | 1.3 |
| 1,550 | 240 | 30 | 54 | 47-1/4 | TRI-5448 | AS | 281834 | 1.3 |
| 1,500 | 120 | 30 | 58 | 51-1/4 | TRI-5848 | AS | 281842 | 1.3 |
| 1,500 | 240 | 30 | 58 | 51-1/4 | TRI-5848 | AS | 281850 | 1.3 |
| 1,500 | 480 | 30 | 58 | 51-1/4 | TRI-5848 | NS | 176647 | 1.3 |
| 1,850 | 120 | 30 | 62 | 55-1/4 | TRI-6248 | AS | 281869 | 1.3 |
| 1,850 | 240 | 30 | 62 | 55-1/4 | TRI-6248 | AS | 281877 | 1.3 |
| 1,675 | 120 | 30 | 64 | 57-1/4 | TRI-6448 | NS | 176655 | 1.3 |
| 1,675 | 240 | 30 | 64 | 57-1/4 | TRI-6448 | AS | 281885 | 1.3 |
| 1,675 | 480 | 30 | 64 | 57-1/4 | TRI-6448 | NS | 176663 | 1.3 |
| 1,950 | 120 | 30 | 66 | 59-1/4 | TRI-6648 | AS | 281893 | 1.3 |
| 1,950 | 240 | 30 | 66 | 59-1/4 | TRI-6648 | AS | 281906 | 1.3 |
| 1,850 | 120 | 30 | 70 | 63-1/4 | TRI-7048 | NS | 176671 | 1.3 |
| 1,850 | 240 | 30 | 70 | 63-1/4 | TRI-7048 | AS | 281914 | 1.3 |
| 1,850 | 480 | 30 | 70 | 63-1/4 | TRI-7048 | NS | 176680 | 1.3 |
| 2,250 | 240 | 30 | 74 | 67-1/4 | TRI-7448 | AS | 281922 | 1.5 |
| 2,025 | 120 | 30 | 76 | 69-1/4 | TRI-7648 | NS | 176698 | 1.5 |
| 2,025 | 240 | 30 | 76 | 69-1/4 | TRI-7648 | AS | 281930 | 1.5 |
| 2,025 | 480 | 30 | 76 | 69-1/4 | TRI-7648 | NS | 176700 | 1.5 |
| 2,350 | 240 | 30 | 78 | 71-1/4 | TRI-7848 | AS | 281949 | 1.5 |
| 2,200 | 120 | 30 | 82 | 75-1/4 | TRI-8248 | NS | 176719 | 1.8 |
| 2,200 | 240 | 30 | 82 | 75-1/4 | TRI-8248 | AS | 281957 | 1.8 |
| 2,200 | 480 | 30 | 82 | 75-1/4 | TRI-8248 | NS | 176727 | 1.8 |
| 2,600 | 240 | 30 | 86 | 79-1/4 | TRI-8648 | AS | 281965 | 1.8 |
| 2,375 | 240 | 30 | 88 | 81-1/4 | TRI-8848 | AS | 281973 | 1.8 |
| 2,375 | 480 | 30 | 88 | 81-1/4 | TRI-8848 | NS | 176735 | 1.8 |
| 2,750 | 240 | 30 | 90 | 83-1/4 | TRI-9048 | AS | 281981 | 1.8 |
| 2,550 | 240 | 30 | 94 | 87-1/4 | TRI-9448 | NS | 176743 | 1.8 |
| 2,550 | 480 | 30 | 94 | 87-1/4 | TRI-9448 | NS | 176751 | 1.8 |
| 3,000 | 240 | 30 | 98 | 91-1/4 | TRI-9848 | AS | 281990 | 2 |
| 2,700 | 240 | 30 | 100 | 93-1/4 | TRI-10048 | NS | 176760 | 2 |
| 2,700 | 480 | 30 | 100 | 93-1/4 | TRI-10048 | NS | 176778 | 2 |
| 3,150 | 240 | 30 | 102 | 95-1/4 | TRI-10248 | AS | 282001 | 2 |
| 2,875 | 240 | 30 | 106 | 99-1/4 | TRI-10648 | NS | 176786 | 2.3 |
| 2,875 | 480 | 30 | 106 | 99-1/4 | TRI-10648 | NS | 176794 | 2.3 |
| 3,050 | 240 | 30 | 112 | 105-1/4 | TRI-11248 | AS | 282010 | 2.5 |
| 3,050 | 480 | 30 | 112 | 105-1/4 | TRI-11248 | NS | 176807 | 2.5 |

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