Tubular Heaters





Incoloy® and Stainless Steel Element Sheath Surface Treatments

Standard Surface Finish

The standard tubular heater element surface finish is a black chrome oxide, produced when the element is annealed prior to forming in an exothermic atmosphere furnace.

Optional Surface Finishes

Bright Annealing is an option where the tubular heater is annealed in a dissociated ammonia atmosphere furnace. This produces a clean metallic appearance without surface-etching the sheath. **Electro-Polishing** is an electrochemical process that removes surface imperfections and contaminants, enhancing the corrosion resisting ability of the sheath. The resulting surface is clean, smooth and has a bright finish; it is highly recommended for medical, food and other harsh applications.

Passivation removes surface contamination, usually iron, so that the optimum corrosion resistance of the stainless steel is maintained. Surface contamination could come from the small amount of steel that may be worn off a tool during the manufacturing process.

Standard Tubular Heater Terminations

• • • • • • Select the termination style that meets your requirements for space, accessibility and reliability. • • • • • • • • • • •



TYPE P—Plain Pin	in	mm	in	mm	
← "L" → Plain terminal pin. Specify Length "L." Standard 1/2" (12.7 mm) pin length.	.260	6.6	.091	2.3	
	.315	8.0	.105	2.7	
	.375	9.5	.105	2.7	
	.430	10.9	.125	3.2	
	.475	12.0	.125	3.2	



TYPE SF & SF9 (90°) – Quick Connect

1/4" male (3/16" optional) quick connect (slip-on) terminals are welded to the element terminal pin. They provide quick and easy installation of lead wire with excellent holding force. Specify if an optional mica or ceramic insulator is required. Material: Nickel-Plated Steel.



TYPE L__ & L9__ (90°) – Terminal Lug

• A nickel-plated steel lug is projection welded to the terminal pin straight (Type "L_") or at 90° to the sheath (Type "L9_"). Specify if an optional mica or ceramic insulator is required.

Standard LA, L9A 10-32 screw Optional LB, L9B 8-32 screw

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.625

15.9

.160

4.1