

# FIREROD® BOLT

## Upgraded High Performance Heater Contains Conduit Box and Wooden Handle

Watlow's high performance FIREROD® has served the heater industry for over 50 years and a conduit box and wooden handle has been added as a featured option.

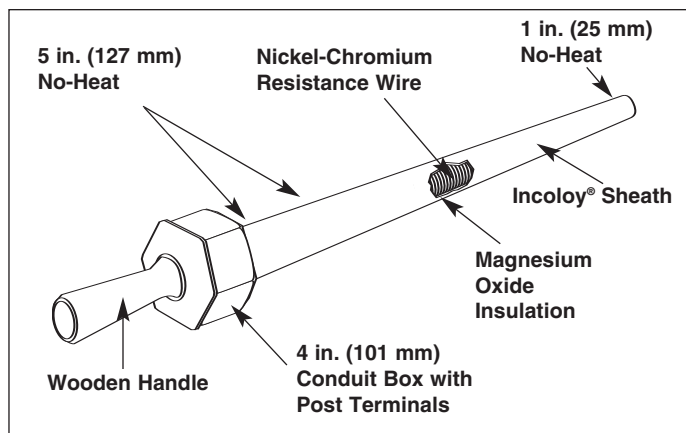
When inserted into a hollow bolt, the heater lengthens the bolt. It expands allowing the nut to be further wrench-tightened. The FIREROD bolt is then de-energized and removed. Upon cooling, the bolt contracts to a tight fit.

### Performance Capabilities

- Part temperatures to 540°C (1000°F)
- Maximum watt density to 15.5 W/cm<sup>2</sup> (100 W/in<sup>2</sup>)

### Applications

- Power plants
- Shipyards
- Press and die manufacturers
- Construction contractors
- Boiler manufacturers



### Features and Benefits

#### Conduit box

- Adds wiring convenience

#### Wooden handle

- Attached for ease of handling the heater

#### Magnesium oxide insulation

- Compacted to the proper density, results in high dielectric strength and contributes to faster heat-up

#### Nickel-chromium resistance wire

- Precisely wound through the heated length, assures even, efficient distribution of heat to the sheath

#### Conductor pins metallurgically-bonded

- Ensures trouble-free electrical continuity

#### UL® approved flexible stranded wires available

- Insulate the wires to temperatures of 250°C (480°F)



12001 Lackland Road  
St. Louis, Missouri 63146 USA  
Phone: +1 (314) 878-4600  
FAX: +1 (314) 878-6814  
Internet: [www.watlow.com](http://www.watlow.com)  
e-mail: [info@watlow.com](mailto:info@watlow.com)

STL-FRB-0505

UL® is a registered trademark of Underwriter's Laboratories, Inc.  
Incoloy® is a registered trademark of Special Metals Corporation.

## Applications and Technical Data

FIREROD Bolt Specifications											
<b>Diameter ±0.005 in.</b>	0.460	0.496	0.553	0.580	0.621	0.688	0.710	0.746	0.813	0.996	
<b>Maximum Volts</b>	240	240	240	480	480	480	480	480	480	480	
<b>Maximum Amps</b>	9.7	9.7	14	23	23	23	46	46	46	46	
<b>Maximum Watts</b>	<b>120</b>	1,160	1,160	1,680	2,760	2,760	2,760	5,520	5,520	5,520	5,520
	<b>240</b>	2,320	2,320	5,520	5,520	5,520	5,520	11,000	11,000	11,000	11,000
<b>1 PH 480</b>	—	—	11,000	11,000	11,000	11,000	22,000	22,000	22,000	22,000	
<b>3 PH Available</b>	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	

### Ordering Information

To order stock FIREROD bolt heaters specify:

- Watlow code number from the Watlow Heater's catalog
- Quantity
- Diameter
- Overall length
- Heated length
- Watts
- Volts
- Lead type or post terminals

### Availability

**Stock:** Same day shipment

**Standard:** Shipment within four to six weeks

**Made-to-Order:** Shipment within four to six weeks

To be automatically connected to the nearest North American Technical and Sales Office call:

# 1-800-WATLOW2

**International Technical and Sales Offices:** Australia, +61 (39) 335-6449 • China, +86 (21) 5211-0231 • France, +33 (01) 3073-2425 • Germany, +49 (0) 7253-9400-0 • Italy, +39 (02) 458-8841 • Japan, +81 (03) 3518-6630 • Korea, +82 (02) 575-9804 • Malaysia, +60 (4) 641-5977 • Mexico, +52 (442) 217-6235 • Singapore, +65 6773-9488 • Spain, +34 91 675 12 92 • Sweden, +46 31 7014959 • Taiwan, +886 (0) 7-288-5168 • United Kingdom, +44 (0) 115-964-0777