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.

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)

Performance Capabilities

• Part temperatures to 540°C (1000°F)
• Maximum watt density to 15.5 W/cm² (100 W/in²)

Applications

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

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Incoloy® is a registered trademark of Special Metals Corporation.
## Applications and Technical Data

<table>
<thead>
<tr>
<th>FIROD Bolt Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter ±0.005 in.</td>
</tr>
<tr>
<td>Maximum Volts</td>
</tr>
<tr>
<td>Maximum Amps</td>
</tr>
<tr>
<td>Maximum Watts</td>
</tr>
<tr>
<td>120 Watts</td>
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<tr>
<td>240 Watts</td>
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<tr>
<td>1 PH</td>
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<tr>
<td>Available</td>
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<tr>
<td>3 PH</td>
</tr>
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### Ordering Information

To order stock FIROD 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

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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