

Quick Ship

• Same day shipment on all stock units.

Cartridge Heaters

FIREROD® Bolt

The high performance FIREROD® that has served the heater industry for almost 30 years has been upgraded with a conduit box and wooden handle.

When inserted into a hollow bolt, this heater lengthens the bolt by heat expansion 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 1000°F (540°C)
- Maximum watt density to 100 W/in² (15.5 W/cm²)

Features and Benefits

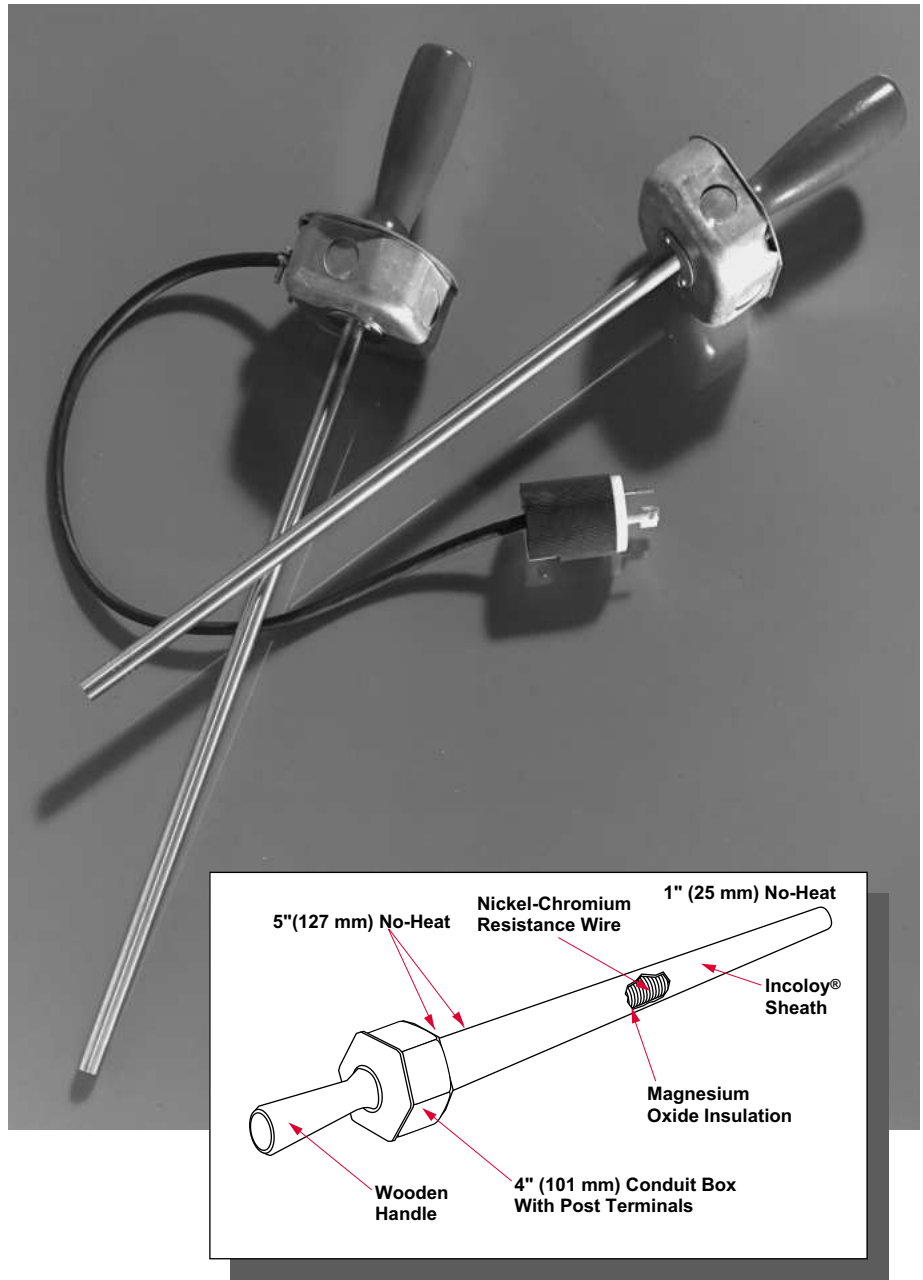
- **Conduit box** has been added for wiring convenience.
- **Wooden handle** is attached for ease of handling the heater.
- **Magnesium oxide insulation**, compacted to the proper density, results in high dielectric strength and contributes to faster heat-up.
- **Nickel-chromium resistance wire**, precisely wound through the heated length, assures even, efficient distribution of heat to the sheath.
- **Conductor pins metallurgically-bonded** to the resistance wires, ensure trouble-free electrical continuity.
- **UL® approved flexible stranded wires**, with silicone-fiberglass sleeve, insulate the wires to temperatures of 480°F (250°C).

Applications

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

UL® is a registered trademark of Underwriter's Laboratories.

Incoloy® is a registered trademark of Special Metals Corporation.



Applications and Technical Data

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

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How to Order

To order stock FIREROD bolt heaters, specify:

- Watlow code number
- 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

F.O.B.: St. Louis, Missouri

Diameter in	Overall Length		Heated Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	in	(mm)	in	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
0.460	18	(457.2)	12	(304.8)	240	1700	98	(15)	1.4	(0.64)	Standard	H18AX7A
	24	(609.6)	18	(457.2)	240	2300	88	(14)	1.6	(0.73)	Standard	H24AX4A
	30	(762.0)	24	(609.6)	240	2300	66	(10)	1.8	(0.82)	Standard	H30AX2A
	36	(914.4)	30	(762.0)	240	2300	53	(8)	2.1	(0.95)	Standard	H36AX1A
0.496	18	(457.2)	12	(304.8)	240	1900	100	(16)	1.5	(0.68)	Standard	J18AX157A
	24	(609.6)	18	(457.2)	240	2300	82	(13)	1.8	(0.82)	Standard	J24AX86A
	30	(762.0)	24	(609.6)	240	2300	62	(10)	2.0	(0.91)	Standard	J30AX34A
	36	(914.4)	30	(762.0)	240	2300	49	(8)	2.4	(1.08)	Standard	J36AX15A
0.553	18	(457.2)	12	(304.8)	240	1200	59	(9)	1.8	(0.82)	Stock	K18AX9A
	24	(609.6)	18	(457.2)	240	1700	55	(9)	2.0	(0.91)	Stock	K24AX4A
	30	(762.0)	24	(609.6)	240	2500	60	(9)	2.3	(1.04)	Stock	K30AX7A
	36	(914.4)	30	(762.0)	240	3200	62	(10)	2.7	(1.22)	Stock	K36AX3A
0.580	18	(457.2)	12	(304.8)	240	2200	100	(16)	1.9	(0.86)	Standard	K18AX12A
	24	(609.6)	18	(457.2)	240	3300	100	(16)	2.1	(0.95)	Standard	K24AX5A
	30	(762.0)	24	(609.6)	240	4350	100	(16)	2.4	(1.08)	Standard	K30AX8A
	36	(914.4)	30	(762.0)	240	5450	100	(16)	2.9	(1.32)	Standard	K36AX4A
0.621	18	(457.2)	12	(304.8)	240	2350	100	(16)	2.0	(0.91)	Standard	L18AX176A
	24	(609.6)	18	(457.2)	240	3500	100	(16)	2.3	(1.04)	Standard	L24AX101A
	30	(762.0)	24	(609.6)	240	4700	100	(16)	2.7	(1.22)	Standard	L30AX63A
	36	(914.4)	30	(762.0)	240	5500	94	(15)	3.1	(1.41)	Standard	L36AX41A
0.688	18	(457.2)	12	(304.8)	240	1500	59	(9)	2.3	(1.04)	Stock	M18AX5A
	24	(609.6)	18	(457.2)	240	2100	55	(9)	2.7	(1.22)	Stock	M24AX5A
	30	(762.0)	24	(609.6)	240	3000	58	(9)	3.1	(1.41)	Stock	M30AX4A
	36	(914.4)	30	(762.0)	240	4000	62	(10)	3.6	(1.63)	Stock	M36AX5A
0.710	18	(457.2)	12	(304.8)	240	2700	100	(16)	2.3	(1.04)	Standard	M18AX6A
	24	(609.6)	18	(457.2)	240	4000	100	(16)	2.8	(1.27)	Standard	M24AX6A
	30	(762.0)	24	(609.6)	240	5350	100	(16)	3.2	(1.45)	Standard	M30AX5A
	36	(914.4)	30	(762.0)	240	5500	83	(13)	3.6	(1.63)	Standard	M36AX9A
0.746	18	(457.2)	12	(304.8)	240	2800	100	(16)	2.5	(1.13)	Standard	N18AX119A
	24	(609.6)	18	(457.2)	240	4200	100	(16)	3.0	(1.36)	Standard	N24AX91A
	30	(762.0)	24	(609.6)	240	5500	98	(15)	3.4	(1.54)	Standard	N30AX30A
	36	(914.4)	30	(762.0)	240	5500	78	(12)	3.8	(1.72)	Standard	N36AX25A
0.813	18	(457.2)	12	(304.8)	240	1800	60	(9)	2.7	(1.22)	Stock	P18AX1A
	24	(609.6)	28	(711.2)	240	2500	55	(9)	3.2	(1.45)	Stock	P24AX2A
	30	(762.0)	24	(609.6)	240	3500	55	(9)	3.7	(1.68)	Stock	P30AX1A
	42	(1066.8)	36	(914.4)	240	6000	66	(10)	4.8	(2.18)	Stock	P42AX2A
0.996	18	(457.2)	12	(304.8)	240	3750	100	(16)	3.4	(1.54)	Standard	T18AX36A
	24	(609.6)	18	(457.2)	240	5500	98	(15)	4.0	(1.81)	Standard	T24AX40A
	30	(762.0)	24	(609.6)	240	5500	73	(11)	4.7	(2.13)	Standard	T30AX20A
	36	(914.4)	30	(762.0)	240	5500	59	(9)	5.3	(2.40)	Standard	T36AX23A