

Nozzle Heaters

Pre-Coiled Cable Nozzle Heaters

The Watlow pre-coiled, cable nozzle heater has been formed into a compact, tightly wound coil to supply 360 degrees of heat. This heater features a 5 in. (127 mm) long, no-heat tail section, which eliminates failures in the adapter area due to overheating.

This cable nozzle heater is manufactured with Watlow's swaged compaction process. This process provides a greater compaction of the MgO insulation than the competitor's rolling process. Compacting MgO insulation into a solid mass results in excellent heat conductivity and high dielectric strength.

Performance Capabilities

- Watt density up to 100 W/in² (15.5 W/cm²)
- Possible operating temperature up to 1200°F (650°C) (Dependent on type of element wire used)
- 230 and 240V constructions

Features and Benefits

Low-profile construction

- Provides easy installation in the tight environment of multiple-gate molds

No-heat tail section

- Reduces temperature at the adapter eliminating failures due to overheating

Single tail with dual lead

- Occupies less space in the wire raceway

360° circumference heat

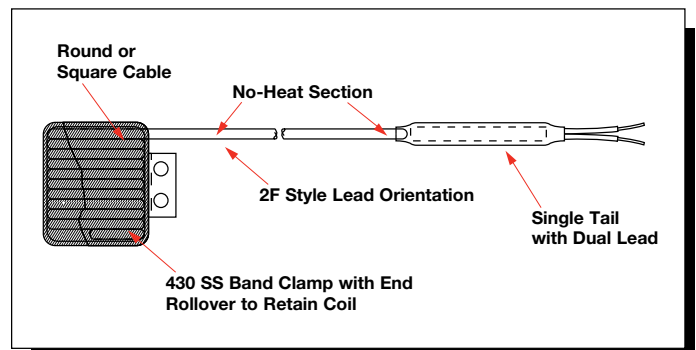
- Provides even heating

Optional externally welded thermocouple to the sheath

- Provides temperature measurement capabilities

Typical Applications

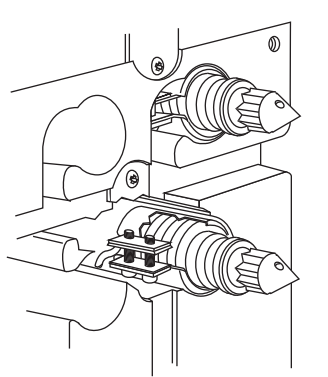
- Plastic injection molding equipment
- Hot runner molds



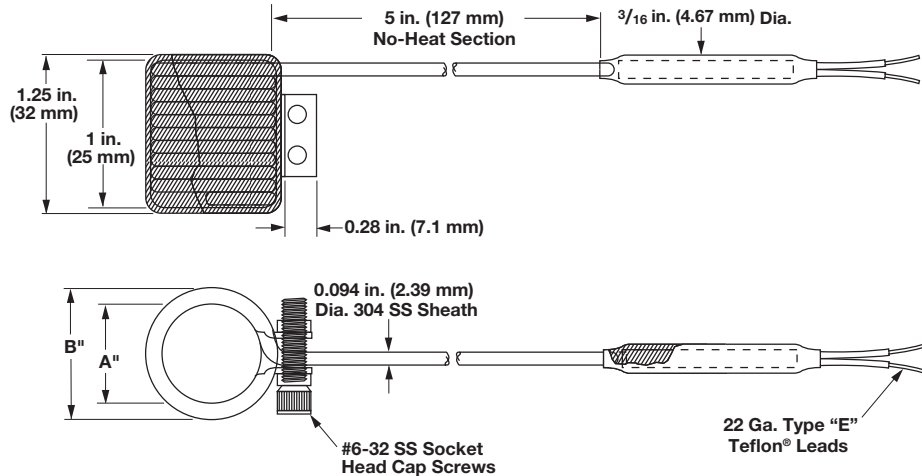
Nozzle Heaters

Pre-Coiled Cable Nozzle Heaters

Technical Data



Coiled Nozzle Heaters Mounted on a 64 Cavity Plastic Injection Mold



Cable Heater Units (Coiled nozzle with clamp strap)

Volts	Watts	Coil I.D. in. (mm)	Clamp O.D. in. (mm)	Clamp Width in. (mm)	No-Heat	Lead Wire (Swaged-in) PTFE Only	Part Number
-------	-------	-----------------------	------------------------	-------------------------	---------	---------------------------------------	-------------

0.094 in. Diameter Round (with ±5% wattage tolerance), no lead protection available.

230	125	0.75 (19.0)	0.98 (24.9)	1.25 (32)	5 in. (127 mm) only	36 in. (914 mm)	94PC30A1A
230	125	0.75 (19.0)	0.98 (24.9)	1.25 (32)		72 in. (1829 mm)	94PC30A1D
230	250	0.75 (19.0)	0.98 (24.9)	1.25 (32)		36 in. (914 mm)	94PC30A2A
230	250	0.75 (19.0)	0.98 (24.9)	1.25 (32)		72 in. (1829 mm)	94PC30A2D
230	250	0.75 (19.0)	0.98 (24.9)	1.25 (32)		36 in. (914 mm)	94PC30A4A ^①

0.102 in. Square Cross-Section (with ±5% wattage tolerance), no lead protection available.

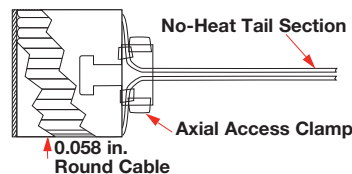
230	125	0.75 (19.0)	1 (25.0)	1.25 (32)	5 in. (127 mm) only	36 in. (914 mm)	102PS28A2B
230	125	0.75 (19.0)	1 (25.0)	1.25 (32)		72 in. (1829 mm)	102PS28A2A
230	250	0.75 (19.0)	1 (25.0)	1.25 (32)		36 in. (914 mm)	102PS28A1B
230	250	0.75 (19.0)	1 (25.0)	1.25 (32)		72 in. (1829 mm)	102PS28A4A ^①
230	250	0.875 (22.2)	1.12 (28.5)	1.25 (32)		36 in. (914 mm)	102PS32A1A

- Manufacturing lead times

^① Units have a 36 in. (914 mm) fiberglass insulated Type J thermocouple externally brazed to the heater sheath O.D.

0.058 in. Diameter Round Mini-Cable Nozzle Heater

(Coiled nozzle with axial clamp)
(with ±5% wattage tolerance)



Coil I.D. in. (mm)	Volts	Watts	Lead Length in. (mm)	Clamp Width in. (mm)	Cable Type	Part No.
0.75 (19)	240	268	72 (1829)	1.25 (32)	Round	Z5969
0.75 (19)	240	149	72 (1829)	1.25 (32)	Round	Z5968

- Manufacturing lead times

Note: An optional Type J or Type K thermocouple can be externally brazed to the sheath O.D.