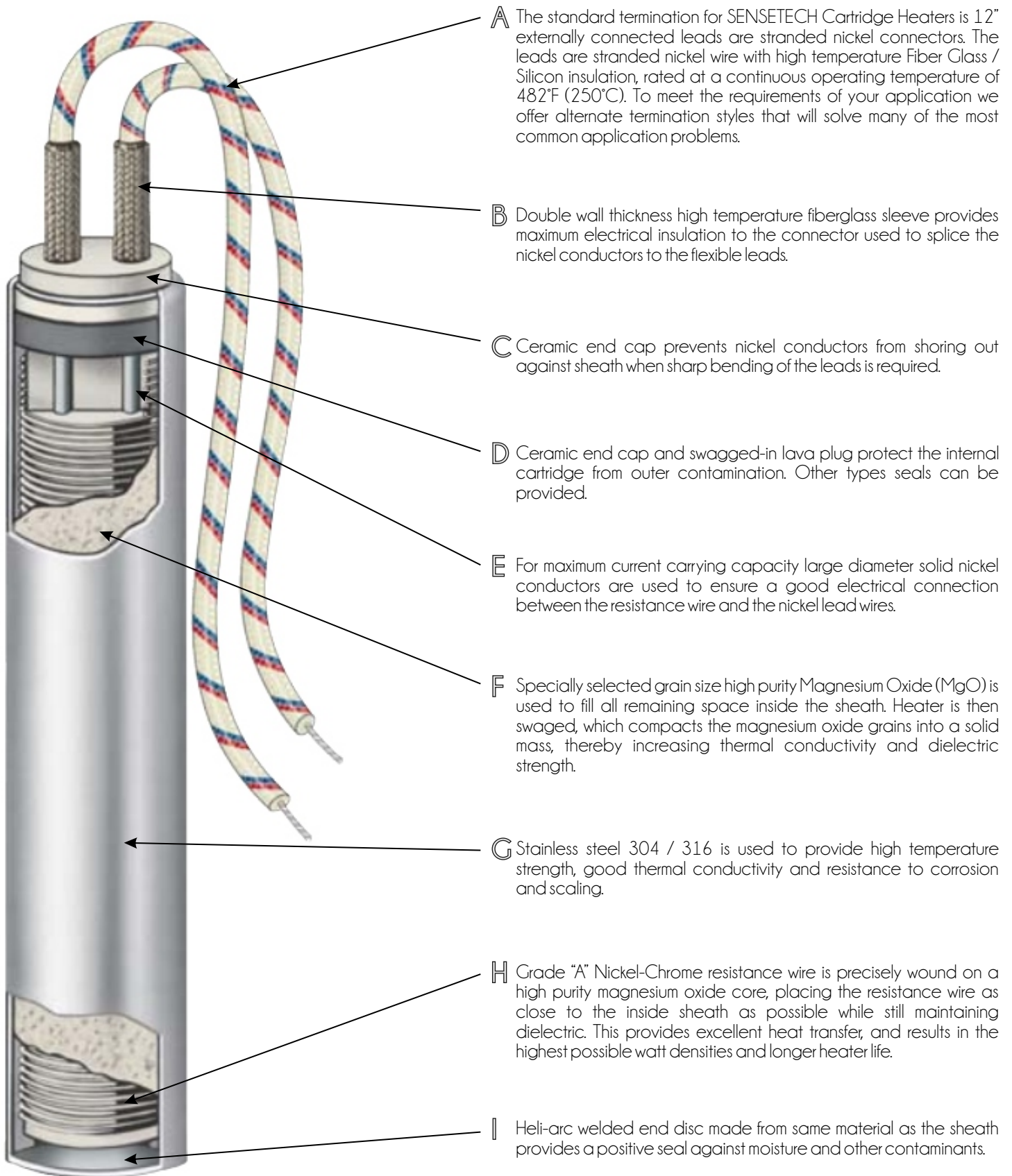


CARTRIDGE HEATERS



CARTRIDGE HEATERS

Description

- Cartridge heaters are some of the most versatile heaters of its kind.
- It is available in various specifications and dimension suitable for different applications.
- Sensing Technology Corporation manufactures and delivers the most diverse cartridge heater to its large clientele, i.e. the leading industrial manufacturers in the country.
- Sensing Technology Corporation customizes cartridge heaters using premium materials, automated machineries and tight manufacturing controls.
- Manufacturing processes conform to stringent procedures to ensure quality and reliability into the products.

Heater Watt Density

- Cartridge Heater Watt Density is defined as the wattage dissipated per square centimeter of the heated sheath surface.
- For a particular application, a heater watt density governs internal resistance wire temperature, which in turn determines the outer sheath temperature.
- These factors are critical to the proper heating and life expectancy of the heater.
- It is always advisable to use heaters that have watt densities below the maximum recommended watt density to get the longest heater life.
- For most general applications, it is recommended not to exceed a watt density of 20 watts / cm².

Operating Temperature

- A major factor in determining the life expectancy of a heating element is its operating temperature.
- The heater depends on the actual temperature of the resistance wire within the heater and not on the process operating temperature.
- A lower heater watt density is recommended when applications require high operating temperature.

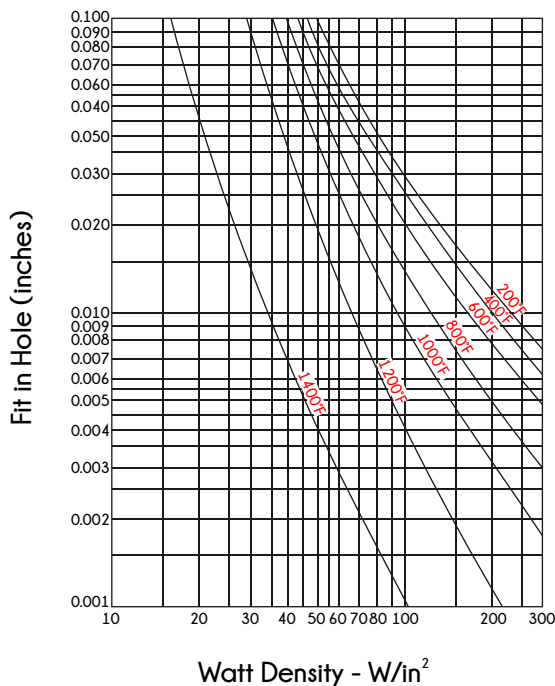
Application

- Molds and dies
- Food processing
- Plastic molding
- Packaging equipment
- Hot stamping
- Plastic extruders
- Hot runner molds
- Medical Equipment
- Shoe Machinery
- Semiconductor
- Hot plates
- Sealing
- Fluid heating

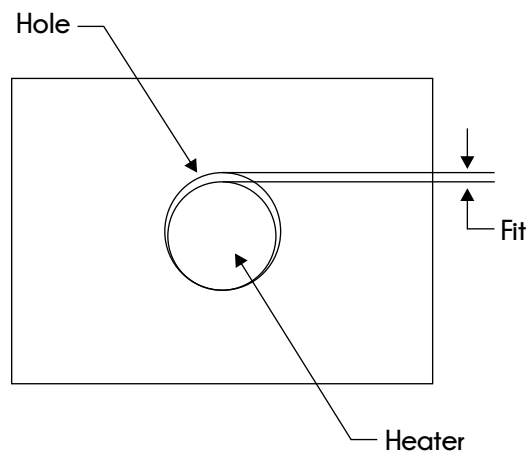
Determining Fit

- At high watt densities, a close fit is an important factor in determining the life expectancy of the heater.
- The fit is the difference between the heater diameter and diameter of the hole.
- A good fit is usually between 0.07mm to 0.15mm.

Recommended Watt Density For Heating Parts



Determining Fit



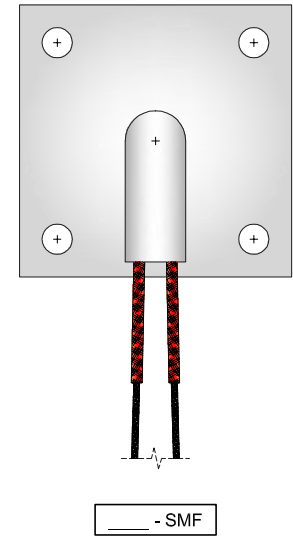
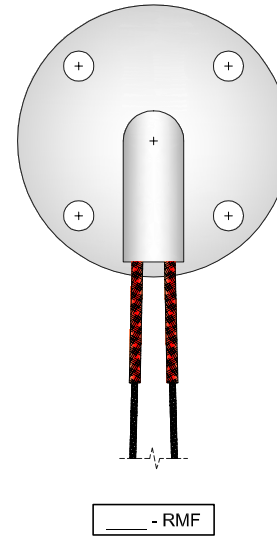
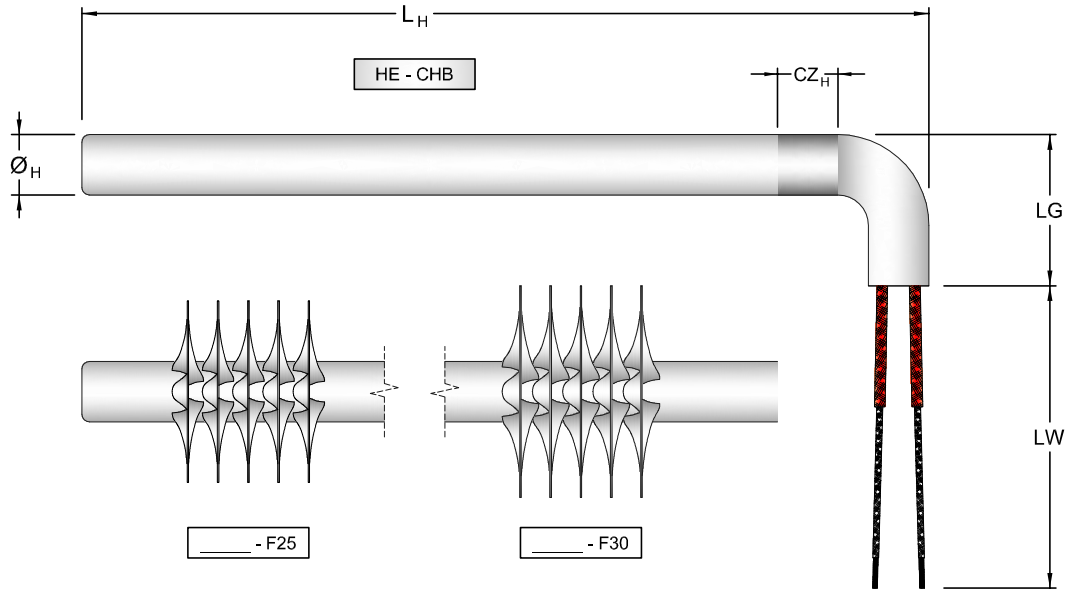
BENDED / 90° BEND, CARTRIDGE HEATER DESIGN AND OPTIONS



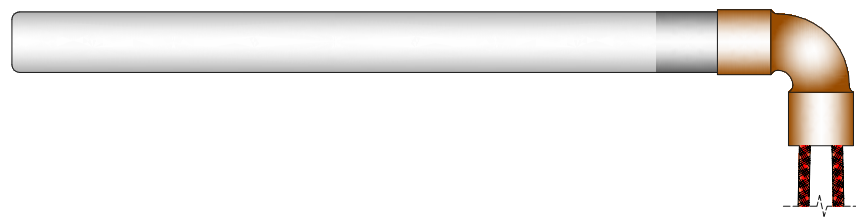
To Order : Please specify the complete assembly, indicate the code letter or value for each option.

MODEL

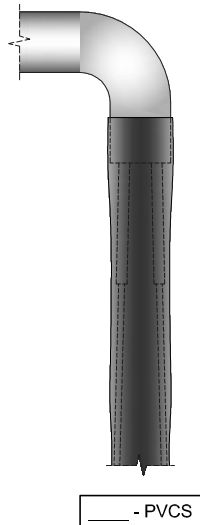
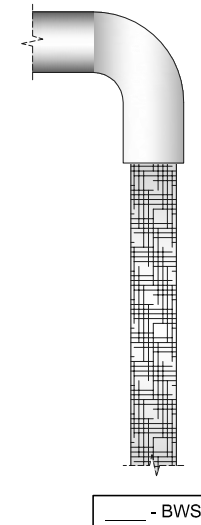
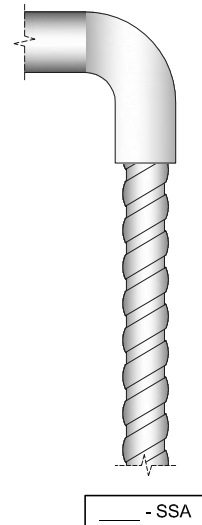
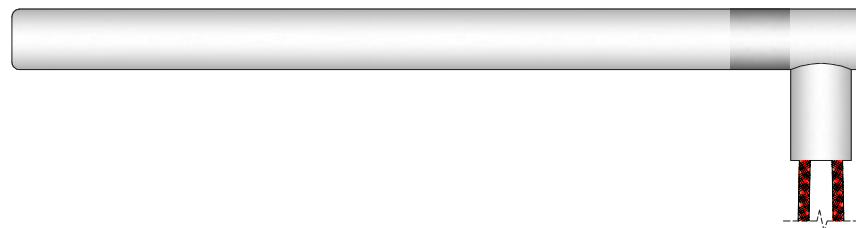
OPTIONS



HE - CHE



HE - CH9



BENDED / 90° BEND, CARTRIDGE HEATER ORDER CODE TABLE



To Order : Please specify the complete assembly, indicate the code letter or value for each option.

Model	Length - L _H	Cold Zone - CZ _H	Diameter - Ø _H	Sheath	Lag Length-LG	Wattage	Supply	Leadwire - LW	Option	Size
				S4						

Model	Description
HE - CHB	Cartridge Heater, Bended Exit
HE - CHBF25	Cartridge Heater, Bended With Fins - Ø 25mm
HE - CHBF30	Cartridge Heater, Bended With Fins - Ø 30mm
HE - CHE	Cartridge Heater, Elbow
HE - CHEF25	Cartridge Heater, Elbow With Fins - Ø 25mm
HE - CHEF30	Cartridge Heater, Elbow With Fins - Ø 30mm
HE - CH9	Cartridge Heater, 90° Exit
HE - CH9F25	Cartridge Heater, 90° With Fins - Ø 25mm
HE - CH9F30	Cartridge Heater, 90°With Fins - Ø 30mm

0	Description
TCK	Type K, Thermocouple, Built In
TCJ	Type J, Thermocouple, Built In
RMF	Round Mounting Flange eg... Ø18mm
SMF	Square Mounting Flange eg... 20mm
SSA	Stainless Steel Armour eg... Ø9.5mm
BWS	Braided Wire Sleeve
PVCS	PVC Shrinkable Sleeve

Example:

HE - CH9	220	25	12	S4	35	850	220	500	BWS
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- Cartridge Heater, 90° Exit
- 220mm..... Length
- 25mm..... Cold Zone
- 12mm..... Diameter
- SS304... Sheath Material
- 35mm..... Lag Length
- 850 Watts..... Wattage
- 220 VAC..... Supply
- 500mm..... Lead Wire
- BWS... Braided Wire Sleeve