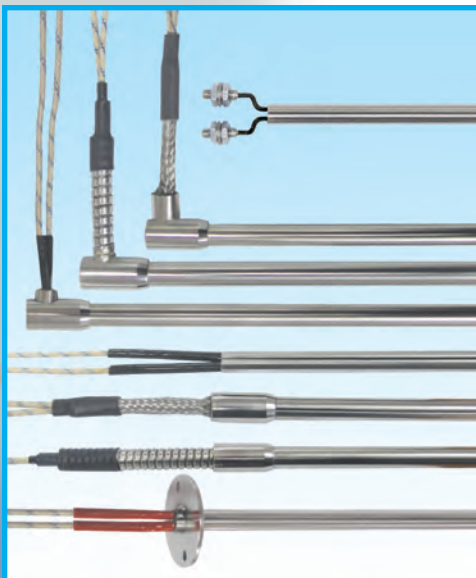


EXPANDABLE CARTRIDGE HEATERS



Typical Heating Applications:

- *Plastic Molding*
- *Packaging Equipment*
- *Plastic Extrusion*
- *Labeling Machines*
- *Platens and Dies*
- *Hot Stamping*

At any given temperature the maximum watt-density that can be applied to a conventional cartridge heater depends on the clearance between the cartridge and the insertion hole of a die or a mold. The larger the clearance the less efficient is the heat transfer from the cartridge to its surrounding. Excessive clearances might cause premature failures

Expandable cartridge heaters are made for insertion holes that through wear has become oversized or intentionally are made larger than acceptable tolerances to facilitate the removal of failed cartridges.

Expandable cartridge heaters have two legs that are joined together at the tip. The two legs are made from single tubular heater that has a semicircular cross-section. When Expandable heaters energize, the two semicircular legs expand with respect each other and press against the insertion hole wall.



Energized
Standard
Cartridge
Heaters



Unenergized
Expandable
Cartridge
Heaters



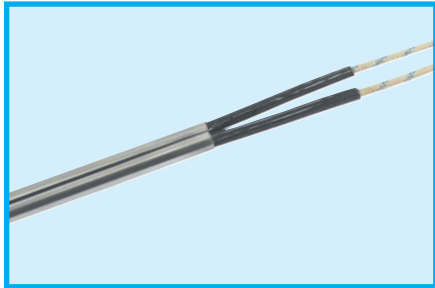
Energized
Expandable
Cartridge
Heaters

BUCAN EXPANDABLE CARTRIDGE HEATERS

Available Diameters Tolerances and Limitations

Nominal Diameters	0.25"	0.375"	0.5"	0.625"	0.75"	1"
Actual Diameters (+/- 0.003")	0.245"	0.370"	0.495"	0.620"	0.745"	0.995"
Max Insertion Length	18"	36"	48"	72"	72"	72"
Min Insertion Length	2"	2"	2.5"	3"	5"	8"
Maximum Voltage	240 V	240 V	240 V	480 V	480 V	480 V
Wattage Tolerance	+5/-10%					
Length Tolerance	+/- 3% up to 24", +/- 2% above 24"					

Termination and Mounting Styles



A1 Style: High temperature fiberglass leads straight



A3 Style: Right angle high temperature leads



K1 Style: SS braided high temperature leads



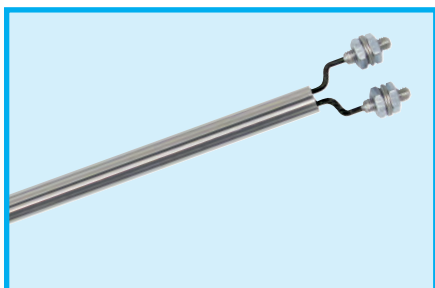
K2 Style: Right angle SS braided high temperature leads



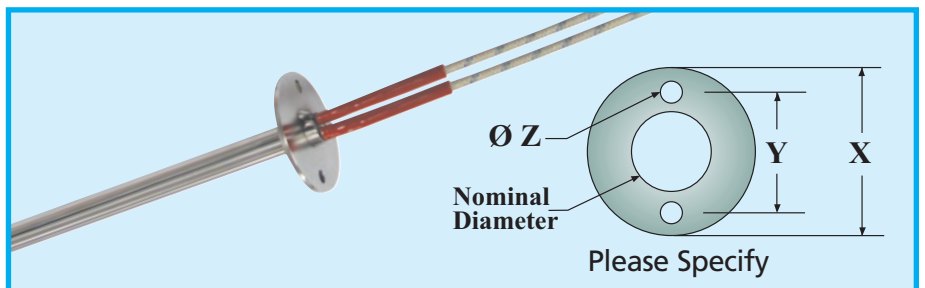
X1 Style: High-temp leads with armor-cable



X2 Style: Right-angle high-temp leads with armor-cable



PT Style: Screw terminals



FL Style: Flange mounting attachments or stop rings