

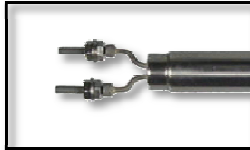
## CARTRIDGE HEATER TERMINATION OPTIONS



**Swaged in Leads:** Swaged in leads are ideal for applications where there is a lot of movement or the leads must be bent sharp upon exiting the heater. Standard lead wire type is Duraflex wire, rated to 550 deg C. Other lead wire types are available.



**Crimped or Welded on Leads:** Crimped on leads are generally used where the temperature at the end of the heater exceeds the maximum rated temperature of the lead wire. Since the connection between the leads and power pins is made outside the heater, the unheated length at the lead end of the heater is kept to a minimum. Crimped on leads are not recommended for applications where the leads must be bent sharply near the heater, or in applications where the leads will be subject to a lot of flexing. For flexing applications, a welded on connection would be better. The high temperature connectors are covered by 1-1/2" of 2500 volt silicone rubber coated fiberglass sleeving.



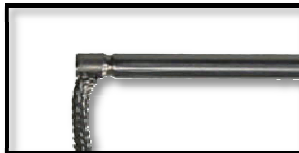
**Post Terminals:** (also called screw terminals or stud terminals) are used in applications where easy lead replacement is desirable. They work great with ring terminals or fork terminals. Post terminals are only available on 1/2" diameter heaters and larger. Terminals are #6-32, other sizes are available.



**Right Angle Leads:** are ideal for applications where space is limited. Leads are covered with silicon impregnated fiberglass sleeve where they exit the heater.



**Stainless Steel Braid:** provides excellent abrasion protection while allowing the leads to be bent in a tight radius. Because the braid is swaged in, it is extremely resistant to pulling out of the heater.

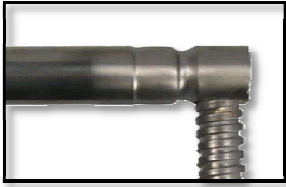


**Right Angle Stainless Steel Braid:** Right angle stainless steel braid offers the same advantages as swaged in stainless steel braid, but allows use in tight spaces. When ordering, please specify the overall length.



**Stainless Steel Flexible Conduit:** (also known as armor or hose) provides maximum lead protection from abrasion, but can not be bent quite as sharply as stainless steel braid. Conduit is swaged into the heater for maximum durability.

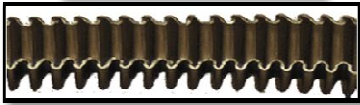
## CARTRIDGE HEATER TERMINATION OPTIONS



**Right Angle Stainless Steel Conduit:** Right angle stainless steel conduit offers the advantages as swaged in stainless steel conduit but allows use in tight spaces.



**Convolute Conduit:** Unlike standard conduit, convolute conduit is sealed and provides complete water resistance at any temperature, while forming a positive seal against contamination entering the heater. It is available on standard 5/8" and 3/4" diameter cartridge heaters. In most cases, Convolute Conduit is brazed directly to the heater. Convolute Conduit is best used in applications where moisture or contamination is an issue. Located to the left, see close-up cross-section of convolute conduit.



**Strain Relief:** This is used for applications that require the leads to flex repetitively.