

### *Tempco Offers Innovative Cartridge Heater Terminations Focused on Providing Maximum Performance Under a Diverse Segment of Demanding Applications*

#### **Cartridge Heater Terminations Can be Elusive to Define and Are Often Overlooked**

To ensure maximum efficiency and reliable cartridge heater service, evaluate your existing operating conditions and proceed to select the best suited termination(s) for your application.

Failure to evaluate the operating conditions and the environment of a cartridge heater application and/or improper termination selection will compromise the operating reliability and functional life of the cartridge heater, resulting in costly machine downtime and loss of revenue due to lack of productivity.

*The synergy between the cartridge heater termination and the application will result in reduced operating cost, increased productivity, optimized performance and improved customer satisfaction.*

#### **Take Advantage of Tempco's Innovative Cartridge Heater Terminations.**

We offer a selection of over 40 standard terminations specifically designed to address the operating requirements of a multitude of diverse applications requiring protection against the following conditions:

- **Abrasion**
- **Moisture Resistance**
- **Contamination**
- **High Temperatures**
- **Flexing**

In addition, there are many cartridge heater adaptations to facilitate their use:

- **Double-End Powerleads**
- **Locating Ring or Bushings**
- **NPT or Bulkhead Fittings**
- **Built-In Thermocouples & Thermostats**
- **Electrical Boxes**
- **Mounting Flanges**
- **Pull Straps**

Refer to pages 2-39 through 2-60 for complete specifications and details on all available terminations and options.

### *A Wise Man Once Said . . .*

*“A Cartridge Heater is Only As Good as the Termination that Powers It.”*

### **Standard Termination — HDC and HDM Hi-Density Cartridge Heaters**



Available through the Hi-Density Cartridge Heater Terminator Program for Same or Next Day Shipping

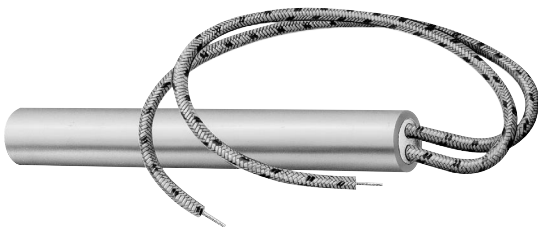
#### **Type N External Pins with Leads**

Available on HDC and HDM cartridge heaters

Flexible stranded lead wires have fiberglass insulation and are connected to 1-1/4" (32 mm) long solid conductors. Silicone rubber coated fiberglass sleeving insulates the pin/lead wire connection.

- Nominal 3/8" unheated section at the lead end is required.
- Standard lead wire temperature rating: 482°F (250°C)
- **Standard 10" (254 mm) leads.** Specify longer leads.

### **Standard Termination — LDC Low-Density Cartridge Heaters**



#### **Type F Internally Connected Flexible Leads**

Available on HDC, HDM and LDC Cartridge Heaters

The fiberglass lead wires are internally connected to the terminal pins. This lead termination provides flexibility, permitting the lead wires to be sharply bent as they exit the heater.

- Minimum 3/8" up to 1" unheated section at the lead end is required.
- Standard lead wire temperature rating for HDC and HDM cartridge heaters is 842°F (450°C)
- Standard lead wire temperature rating for LDC cartridge heaters is 482°F (250°C)
- **Standard 10" (254 mm) leads.** Specify longer leads. For HDC & HDM heaters, leads longer than 60" require a splice.



**Note:** The standard termination for Tempco's line of Miniature Hi-Density Cartridge Heaters is Type M3 - Teflon® End Plug Seal. See pages 2-10 and 2-11 for complete Miniature Cartridge heater details.