TEMPCO offers a square sheathed, mineral insulated, coiled nozzle heater with a built-in-thermocouple. The unique feature of the 1/8” square sheath is a larger sheath contact area as compared to its round sheathed counterpart, allowing for faster start-up cycles. The ANSI Type J standard or optional Type K thermocouple normally has a grounded junction. However, an optional ungrounded junction is available. Heaters can be formed into a compact coiled nozzle heater supplying a full 360° of heat to the distributed wattage coil. The low mass of the heater allows quick response to both heating and cooling.

**Specifications**

- **Resistance tolerance:** ±10%
- **Wattage tolerance:** ±10%
- **Maximum Wattage:** 720 watts (for 240 volt heaters) 300 watts (for 120 volt heaters)
- **Maximum operating temperature:** 1500°F (816°C)
- **Maximum Watt density:** 134 watts/in² applied to nozzle
- **Physical Dimensions:** 1/8” square (except non-heated tail section, which is 1/8” round)
- **Length of non-heated section:** 1” to 6” (specify when ordering)
- **Potting Adapter:** 5/16” O.D. x 1-1/2” long

**Standard Features**

- **Standard lead wire construction** is a fiberglass braided insulation with stainless steel overbraid suitable for 482°F (250°C). Optional constructions using Teflon® insulation or armor cable are available on request.
- **The standard wire to M.I. cable transition area** (potting adapter) is temperature rated to 450°F (232°C). High temperature 842°F (450°C) is optional.
- **Heaters can be supplied with optional stainless steel clamping straps**, which provide additional circumferential clamping forces and protection of the heater coils from accidental damage.
- **All Mightyband coil heaters are available with one** (1) of six (6) different lead orientations (LO) as shown on Page 5-4. Other custom lead orientations can be manufactured to suit. Specify lead orientation when ordering.
- **Can be supplied with optional grounding wire** upon special request.

**Standard (Non-Stock) 1/8” Square Tempco-Pak Cable Heaters** (Non-heated tail section is 1/8” round)

<table>
<thead>
<tr>
<th>Coil I.D. in</th>
<th>Closed Coil Width in</th>
<th>Stretched Width in</th>
<th>Built-In T/C</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Standard Lead Length in</th>
<th>Lead Protection</th>
<th>Lead Orientation</th>
<th>Part Number</th>
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<td>450</td>
<td>C†</td>
<td>L01</td>
<td>MHC00116</td>
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<td>300</td>
<td>A†</td>
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<td>MHC00117</td>
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<td>250</td>
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<tr>
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<td>M2</td>
<td>L01</td>
<td>MHC00123</td>
</tr>
</tbody>
</table>

† Cement Potted Teflon® insulated SPC wire

**Ordering Information**

**Standard Heaters**

Order by Part number for standard heaters listed above for runnerless plastic injection molding, hot sprue bushings and nozzles.

If not otherwise specified, all Mightyband heaters are supplied with close wound coiling pattern, Type L01 lead orientation (see page 5-4), 24” of leads and 20” of stainless steel overbraid with Type J thermocouple. If longer leads are required, please specify.

**Custom Engineered/Manufactured Heaters**

An electric heater can be very application specific; for sizes, ratings and terminations not listed, TEMPCO will design and manufacture a Mightyband heater to meet your requirements. **Standard lead time is 3 weeks.**

**Please Specify** the following:

- Inside Diameter
- Width (Length)
- Specify width as closed or stretched
- Wattage
- Voltage
- Length of non-heated tail section
- Lead length
- Lead Orientation (see page 5-4)
- Lead Transition (see page 5-5)
- Lead protection (see page 5-5)
- Thermocouple Type— if required

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

View Product Inventory @ www.tempco.com