Thermocouples for the Plastics Industry

**Tube and Wire Thermocouples**

**Design Features**
- Economical & versatile for a variety of applications.
- For use up to 900°F (482°C).
- Optional process fittings available. See pages 14-88 and 14-89.
- Available with single or dual element.

**Ordering Information**
TTW and TCP Thermocouples are offered with the options listed in the worksheets. Create an ordering code by filling in the boxes with the appropriate number and/or letter designation for your requirements, and a part number will be assigned.

**Sheath Material**
- **BOX 3**
  - B = 304 SS
  - C = 316 SS

**Sheath O.D.**
- **BOX 4**
  - F = .125" ±.002
  - G = .188" ±.002
  - H = .250" ±.002
  - X = Other (Specify)

**Sheath Length “A”**
- **BOX 5**
  - Whole inches
    - 00 to 99
  - For lengths over 99 in. consult TEMPCO.

**Sheath Length “A”**
- **BOX 6**
  - Fractional inches
    - 0 = 0"
    - 1 = 1/8"
    - 2 = 1/4"
    - 3 = 3/8"
    - 4 = 1/2"
    - 5 = 5/8"
    - 6 = 3/4"
    - 7 = 7/8"

**Lead Wire Length “L”**
- **BOX 8**
  - In inches 000 to 999
  - Example 048 for 48"

**Lead Wire Construction**
- **BOX 9**
  - Fiberglass 900°F (482°C)
    - S = w/ SS Overbraid
    - T = w/ SS Armor Cable
  - Teflon® 400°F (204°C)
    - B = Standard Male Plug
    - D = Miniature Male Plug
    - E = Miniature Female Jack
    - F = Miniature Plug with Mating Jack
  - Depending on availability, sheath OD of .125" uses 24 gauge lead wire. Larger than .125" thermocouples use 20 gauge lead wire depending on availability and insulation type.

**Ordering Code**
- **TTW**
  - 1
  - 2
  - 3
  - 4
  - 5
  - 6
  - 7
  - 8
  - 9
  - 10
  - 11

**Calibration Code**
- **BOX 2**
  - ANSI Standard
  - Tolerances
  - JKE T N

**Junction**
- **BOX 7**
  - Grounded
  - Ungrounded
  - Single Element
    - G
  - Dual Element
    - 4

**Lead Wire Termination**
- **BOX 10**
  - B = 2-1/2 in. Split Leads
  - S = 2-1/2 in. Split Leads with Spade Lugs
  - C = 2-1/2 in. Split Leads with BX connector and Spade Lugs
  - P = Standard Male Plug
  - J = Standard Female Jack
  - K = Std. Plug with Mating Jack
  - D = Miniature Male Plug
  - E = Miniature Female Jack
  - F = Miniature Plug with Mating Jack
  - X = Other (Specify)

**Special Requirements**
- **BOX 11**
  - X = Specify
  - 0 = None

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**Note:** Metric sizes available. Consult TEMPCO

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

View Product Inventory @ www.tempco.com
Optional Thermocouple Termination Styles

Available for the following thermocouples:

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<td>MTA1</td>
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Optional Termination Styles

- **Style B**—Plain Ends
- **Style S**—Spade Lugs
- **Style C**—Spade Lugs with BX connector
- **Style P**—Standard Plug
- **Style J**—Standard Jack
- **Style D**—Miniature Plug
- **Style E**—Miniature Jack

Optional Termination Styles Available for the following thermocouples:

- Style TTW
- Style TCP
- Style TRW
- Style TSW
- Style TPW
- Style TNW
- Style TWW
- Style TMW
- Style MTA1

Termination 1 & 2

<table>
<thead>
<tr>
<th>S = Spade Lugs</th>
<th>B = 2-1/2 in. Split Leads</th>
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<tbody>
<tr>
<td>C = Spade Lugs with BX Conn.</td>
<td>D = Miniature Plug</td>
</tr>
<tr>
<td>P = Standard Plug</td>
<td>E = Miniature Jack</td>
</tr>
<tr>
<td>J = Standard Jack</td>
<td>X = Other (Specify)</td>
</tr>
</tbody>
</table>

Calibration

- **Box 3**
  - ANSI Standard Tolerances

Termination Style descriptions

Ordering Code: **ECA**

“L” Dimension

- **Box 4**
  - Whole inches 006 to 999

Lead Insulation

- **Box 5**
  - Standard w/ SS Overbraid
  - w/ SS Armor Cable
  - Fiberglass 900°F (482°C): S = B
  - Teflon® 400°F (204°C): T = D

Special Requirements

- **Box 6**
  - X = Specify
  - 0 = None

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