Mineral Insulated Thermocouple Cable Ordering Worksheet

**Ordering Code:** MTC – 1 2 3 4 5

Designates TEMPCO-PAK Sheathed Mineral Insulated Thermocouple Cable

**Calibration Code** — See page 14-117

<table>
<thead>
<tr>
<th>ANSI Standard Tolerances</th>
<th>Special Tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>J = (Iron/Constantan)</td>
<td>3</td>
</tr>
<tr>
<td>K = (Chromel®/Alumel)</td>
<td>4</td>
</tr>
<tr>
<td>E = (Chromel®/Constantan)</td>
<td>5</td>
</tr>
<tr>
<td>T = (Cu/Constantan)</td>
<td>6</td>
</tr>
<tr>
<td>N = (Nicrosil/Nisil)</td>
<td>7</td>
</tr>
<tr>
<td>R = (Pt/Pt-13% Rh) PER ITS-90</td>
<td></td>
</tr>
<tr>
<td>S = (Pt/Pt-10% Rh) PER ITS-90</td>
<td></td>
</tr>
<tr>
<td>B = (Plat-6% Rh/Plat-30% Rh)</td>
<td></td>
</tr>
<tr>
<td>C = (W-5% Re/W-26% Re)</td>
<td></td>
</tr>
<tr>
<td>O = Miscellaneous (Consult Factory)</td>
<td></td>
</tr>
</tbody>
</table>

**Number of Conductors**

- 2 = 2-wire construction (Single Element)
- 4 = 4-wire construction (Duplex Element)

**Insulation** — See page 14-118

- M = 96% min. MgO
- H = 99.4% min. MgO
- A = 99.6% Alumina

**Sheath Material** — See pages 14-115 and 14-116

- A = Alloy 600
- B = 304 SS
- C = 316 SS
- D = 304L SS
- E = 316L SS
- F = 310 SS
- G = 321 SS
- H = 347 SS
- J = Nickel 200
- K = Nickel 201
- L = 446 SS
- M = Pure platinum
- N = Platinum 10% rhodium
- P = Platinum 20% rhodium
- Q = Hastelloy X®
- R = Inconel® 601
- S = Incoloy® 800
- T = Incoloy® 800HT
- U = Tantalum
- V = Molybdenum

**Note:** For a complete description of Worksheet options see pages 14-115 through 14-118.

**Sheath O.D.**

- A = .020" ± .001
- B = .032" ± .001
- C = .040" ± .001
- D = .063" ± .001
- E = .093" ± .002
- F = .125" ± .002
- G = .188" ± .002
- H = .250" +.003/−.002
- J = .313" +.003/−.002
- K = .375" +.003/−.002
- L = 1.0 mm ± .03
- M = 1.5 mm ± .03
- N = 2.0 mm ± .03
- P = 3.0 mm ± .05
- Q = 4.5 mm ± .05
- R = 6.0 mm +.07/−.05
- S = 8.0 mm +.07/−.05
- T = 9.0 mm +.07/−.05

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

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