The straight base-metal thermocouple assemblies illustrated on this page are typically used in high temperature and highly corrosive applications commonly found in waste incinerators, cement and lime kilns, utility and waste recovery boilers, and other severe process environments. Special construction designs are also available.

**ORDER CODES**

**Example Order Number:**

1. Thermocouple Type and Wire Gauge Size
   - **CODE**
   - **DESCRIPTION**
   - K8C  Type K 8 Gauge ceramic oval insulators
   - N8C  Type N 8 Gauge ceramic oval insulators

   For duplex assemblies use the T/C type code letter twice. Round insulators will be supplied with 71 series tubes and duplex elements in 12 series tubes. Duplex elements are not available in series 71 tubes.

2. Protection Tube Material NPT Connection
   - **CODE**
   - **I.D. (inches)**
   - **O.D. (inches)**
   - **FITTING DESCRIPTION**
   - **PROCESS THREADS (inches)**
   - **TERM THREADS (inches)**

   **Metal Ceramic (LT-1) 1371 °C [2500 °F]**
   - 12WH  5/8  7/8  Steel hex fitting  1  3/4
   - 12W(E)  5/8  7/8  Steel pipe nipple (specify “E” length)  1  1

   **Silicate-Bonded Silicon Carbide 1649 °C [3000 °F]**
   - 18J  1  1(3/4)  Plain tube  None  None
   - 18JC  1  1(3/4)  Tube with 3” O.D. collar  None  None

   **Recrystallized Silicon Carbide (RSiC) 1600 °C [2912 °F]**
   - 71WH  1/2  7/8  Steel hex fitting  1  3/4
   - 71W(E)  1/2  7/8  Steel pipe nipple (specify “E” length)  1  1

3. Tube "X" Length
   - **LENGTH (inches)**
   - 12  36
   - 18  42
   - 24  48
   - 30

4. Head Terminations
   - **CODE**
   - **DESCRIPTION**
   - 31  Aluminum screw-cover head
   - 34  Cast-Iron screw-cover head
   - 49  Flip-top aluminum head
   - 91  316 stainless steel screw-cover head

   **Assembly**
   - SB  1/2” NPT conduit reducer bushing
   - GS  Internal ground screw
   - H  Adjustable mounting flange
   - HT  Threaded floor flange on nipple

   **Supplied without threads**

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**INDUSTRIAL**

Thermocouples with Special-Service Composite Protection Tubes

**Configuration Code ID06**

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