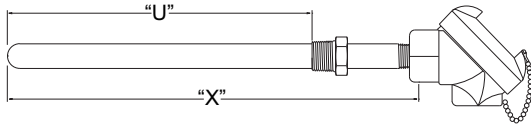
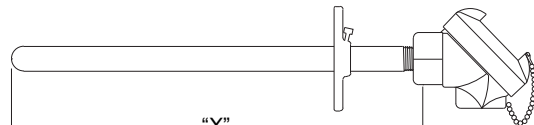


The straight base metal thermocouple assemblies illustrated on this page are those most commonly used in medium to high temperature low corrosion industrial process heating applications. All listed assemblies are provided with schedule 40 protection tubes, and are available with listed options. Heavier pipe schedule protection tubes and special construction designs are also available. **Note: Welded bushings will be welded at maximum length possible when X and U dimensions are specified as the same length. Actual U dimension will be 1 to 2 inches shorter than specified depending on bushing size.**

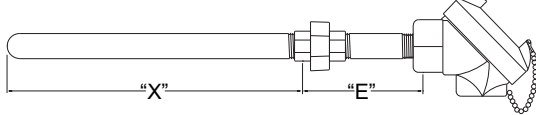
ASSEMBLY with WELDED BUSHING



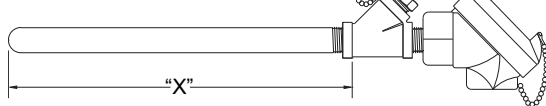
ASSEMBLY with OPTIONAL FLANGE



ASSEMBLY with OPTIONAL UNION NIPPLE



ASSEMBLY with TEMPERATURE CHECK FITTING



ORDER CODES

Example Order Number: **K8C** - **7** - **50** - **24** - **6E20** - **34**

1 Thermocouple Type + Wire Gauge Size

| CODE | | |
|---|------|------|
| J8C | K8C | N8C |
| J11C | K11C | |
| J14C | K14C | N14C |
| Thermocouples of 8 ga. wire require minimum of 1/2" NPT tube | | |
| DUPLIX T/C ASSEMBLIES | | |
| For duplex assemblies use the T/C type code letter twice. Example: K8C - 7 - 75 becomes KK8C - 7 - 75 | | |

2 Protection Tube Material 3 NPT Thread Size

| CODE | MATERIAL | CODE (inches) | | | |
|------|--------------|---------------|-----|-----|-----|
| | | 1/4 | 1/2 | 3/4 | 1 |
| 6 | CARBON STEEL | 25 | 50 | 75 | 100 |
| 8 | 316 SS | 25 | 50 | 75 | 100 |
| 5 | 446 SS | | 50 | 75 | 100 |
| 3 | INCONEL 600 | | 50 | 75 | |
| 7 | INCONEL 601 | | 50 | 75 | 100 |

4 Tube "X" Length

| LENGTH (inches) | LENGTH (inches) |
|---|-----------------|
| 12 | 30 |
| 18 | 36 |
| 24 | |
| Specify other lengths in 1 inch increments. | |

Duplex 8, 11, and 14 ga. assemblies require a minimum 1/2" NPT protection tube size (size codes 50 and larger).

8 gauge duplex thermocouple elements supplied in 1/2" NPT protection tubes will be supplied with round insulators.

5 Optional Welded Bushings

| CODE | DESCRIPTION | |
|--|-----------------------|---|
| STEEL | 316SS | BUSHING SIZE (inches) |
| 6C(U) | 8C(U) | 1/2 NPT Bushing (25 tubes only) |
| 6D(U) | 8D(U) | 3/4 NPT Bushing (25 and 50 tubes only) |
| 6E(U) | 8E(U) | 1 NPT Bushing (25, 50 and 75 tubes only) |
| 6F(U) | 8F(U) | 1(1/4) NPT Bushing |
| 6G(U) | 8G(U) | 1(1/2) NPT Bushing |
| Substitute insertion length, in inches, measured from hot tip to bottom of bushing for (U) above. Insert NW in place of insertion length (U) for bushing supplied loose on tube. | | |
| Optional Union and Nipple Head Connection | | |
| STEEL | 316 SS | Union-nipple supplied as material specified |
| 6PU(E) ^[1] | 8PU(E) ^[1] | |
| [1] Insert extension length, in inches, for (E) above. | | |

6 Head Terminations

| CODE | DESCRIPTION |
|---|---|
| 31 | Aluminum screw cover head |
| 34 | Cast iron screw cover head |
| 49 | Flip top aluminum head |
| 71 ^[1] | Cast iron aluminum explosion proof head |
| 81 ^[1] | 316L SS explosion proof head |
| 91 ^[1] | 316L SS head |
| [1] Not available with 1" NPT protection tubes. | |

6-1 Assembly Options

| CODE | DESCRIPTION |
|------|----------------------------------|
| GS | Ground screw |
| H | Adjustable steel mounting flange |
| I | Stainless tag |
| 6Y | Steel temperature check fitting |
| L | Insulated hot junction |