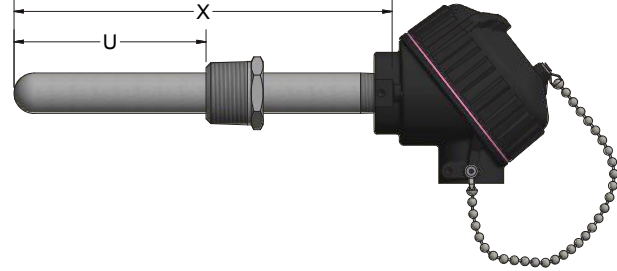
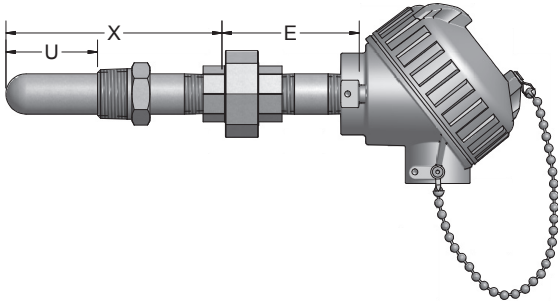


The straight base metal thermocouple assemblies illustrated on this page are those most commonly used in industrial process heating applications. All listed assemblies are provided with schedule 40 protection tubes, and are available with listed options. Heavier pipe schedule protection tubes and special 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.**

## ASSEMBLIES with WELDED BUSHINGS



## ORDER CODES

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

### 1 Thermocouple Type and Wire Gauge Size

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

### 2 Protection Tube Material

CODE	MATERIAL	3 NPT Thread Size (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	ALLOY 600		50	75	
7	ALLOY 601		50	75	100
41	HR 160®		50	75	100

### 4 Tube "X" Length

LENGTH (inches)	LENGTH (inches)
12	30
18	36
24	
Specify other lengths in 1" increments up to 240". Consult factory for lengths above 20'.	

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	<b>BUSHING SIZE (inches)</b>
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) <sup>[1]</sup>	8PU(E) <sup>[1]</sup>	

[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
91 <sup>[1]</sup>	316L SS screw-cover head
93 <sup>[1]</sup>	Aluminum explosion-proof/flame-proof head, NEC, IEC, Atex approved
94 <sup>[1]</sup>	316L stainless steel explosion-proof/flame-proof head, NEC, IEC, Atex approved

[1] Not available with 1" NPT protection tubes.

### 6-1 Assembly Options

CODE	DESCRIPTION
SB	1/2" NPT conduit reducer bushing
GS	Ground screw
H	Adjustable steel mounting flange
I	Stainless tag
6Y	Steel temperature check fitting
L	Insulated hot junction

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