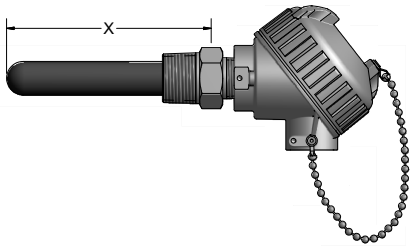
Configuration Code ID06

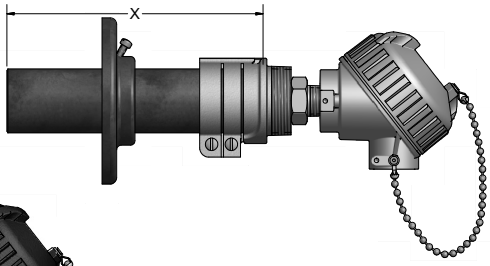
Thermocouples with Special-Service Composite Protection Tubes

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.

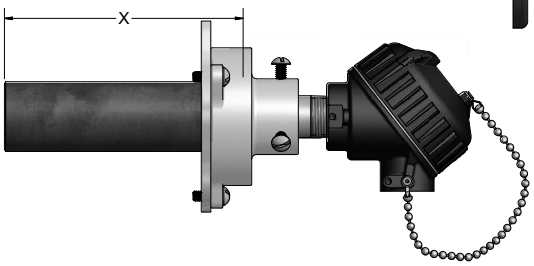
SERIES 12WH or 71WH ASSEMBLY with 1" STEEL HEX FITTING



SERIES 18J ASSEMBLY with OPTIONAL FLANGE



SERIES 18JC ASSEMBLY



ORDER CODES

Example Order Number: **K8C - 12WH - 36 - 34, I**

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.	

3 Tube "X" Length

LENGTH (inches)	
12	36
18	42
24	48
30	

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 ºC [2500 ºF]					
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 ºC [3000 ºF]					
18J	1	1(3/4)	Plain tube	None	None
18JC	1	1(3/4)	Tube with 3" O.D. collar	None	None
Recrystalized Silicon Carbide (RSiC) 1600 ºC [2912 ºF]					
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

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
SB	1/2" NPT conduit reducer bushing
I	Stainless tag
8	316 stainless steel nipple or hex fitting
NT	Supplied without threads