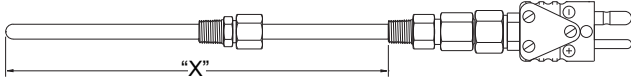


Pyromation's high temperature thermocouples are designed to operate in a temperature range of (982 to 1871) °C [1800 to 3400] °F. They are designed for use in vacuum furnaces and other applications requiring high temperature measurement in controlled atmospheric conditions. Metal sheaths of Inconel® 600 and molybdenum are available as well as alumina ceramic sheaths. All assemblies are supplied with ungrounded isolated hot junctions. The construction style consists of an alumina insulated element inside the tube of choice as listed below. Special construction designs are also available.

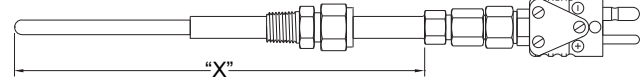
METAL SHEATHED ASSEMBLY

FIG. 1



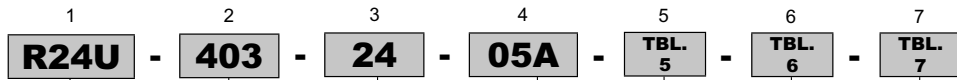
ALUMINA SHEATHED ASSEMBLY

FIG. 2



ORDER CODES

Example Order Number:



Select from following page

1 Single Elements 2 Sheath Size and Material

TYPE AND WIRE GAUGE		CODE	SHEATH DIA. (inches)	MAX. TEMP.	ATMOSPHERE	
CODE						
<i>INCONEL 600</i>		<i>INCONEL 600</i>				
B24U	R26U S26U	303	0.188	1149 °C [2100 °F]	Oxidizing, Inert or Vacuum	
C24U		303	0.188			
R24U		303	0.188			
S24U		303	0.188			
B24U	R26U S26U	403	0.250	1149 °C [2100 °F]		
C24U		403	0.250			
R24U		403	0.250			
S24U		403	0.250			
<i>MOLYBDENUM</i>		<i>MOLYBDENUM</i>				
B24U	R26U S26U	302	0.188	1704 °C [3100 °F] 1871 °C [3400 °F] 1482 °C [2700 °F] 1482 °C [2700 °F]	Inert or Vacuum	
C24U		302	0.188			
R24U		302	0.188			
S24U		302	0.188			
B24U	R26U S26U	402	0.250	1704 °C [3100 °F] 1871 °C [3400 °F] 1482 °C [2700 °F] 1482 °C [2700 °F]		
C24U		402	0.250			
R24U		402	0.250			
S24U		402	0.250			
<i>ALUMINA</i>		<i>ALUMINA</i>				
B24U	R26U S26U	617	0.275 ^[1]	1704 °C [3100 °F] 1871 °C [3400 °F] 1482 °C [2700 °F] 1482 °C [2700 °F]	Oxidizing, Inert or Vacuum	
C24U		617	0.275 ^[1]			
R24U		617	0.275 ^[1]			
S24U		617	0.275 ^[1]			
For duplex elements use order code pre-fix letter twice. Example: RR24U		[1] Sheath supplied with 3/8" OD x 4" long stainless steel sleeve on tube cold end. Only available with size B and C compression fittings.				
CC24 assemblies not available in 0.188" OD sheath diameter.		Consult factory for availability of other diameters or insulations.				

4 Sheath Mounting Fittings

CODE	TYPE	NPT SIZE (inches)	AVAILABLE SHEATH DIA. (inches)
00	No sheath mounting fitting		
One Time Adjustable Compression Fittings			
05A	Stainless steel	1/8	3/16, 1/4
05B	Stainless steel	1/4	3/16, 1/4, 3/8
05C	Stainless steel	1/2	1/4, 3/8
Re-Adjustable Compression Fittings			
12A	Stainless steel	1/8	3/16, 1/4
12B	Stainless steel	1/4	1/4, 3/8
12C	Stainless steel	1/2	1/4, 3/8
Teflon® gland standard (400 °F max.)			

3 Sheath X Length

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

[2] All assemblies are provided with wire seal fitting except platinum element assemblies in inconel protection tubes.

[3] All C24 assemblies in alumina protection tubes can only be used in inert or vacuum atmospheres.