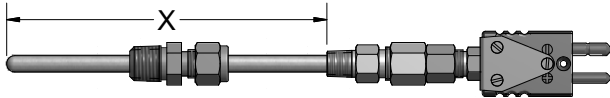
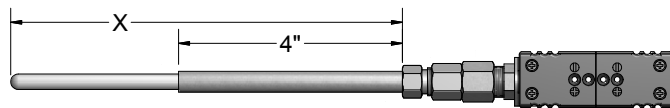


Pyromation's high-temperature thermocouples are designed to operate in a temperature range of (982 to 1871) °C [1800 to 3400] °F. They are designed for use in vacuum furnaces and other applications requiring high-temperature measurement in controlled atmospheric conditions. Metal sheaths of Alloy 600 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



ALUMINA-SHEATHED ASSEMBLY



ORDER CODES

Example Order Number:

1 2 3 4 5 6 7
R24U - **403** - **24** - **05A** - **TBL. 5** - **TBL. 6** - **TBL. 7**

Select from following page

1 Single Elements

2 Sheath Size and Material

TYPE AND WIRE GAUGE	CODE	SHEATH DIA. (inches)	MAX. TEMP.	ATMOSPHERE
ALLOY 600	ALLOY 600			
B24U	303	0.188	1149 °C [2100 °F]	Oxidizing, Inert or Vacuum
C24U	303	0.188		
R24U	303	0.188		
S24U	303	0.188		
B24U	403	0.250	1149 °C [2100 °F]	
C24U	403	0.250		
R24U	403	0.250		
S24U	403	0.250		
MOLYBDENUM	MOLYBDENUM			
B24U	302	0.188	1704 °C [3100 °F]	Inert or Vacuum
C24U	302	0.188	1871 °C [3400 °F]	
R24U	302	0.188	1482 °C [2700 °F]	
S24U	302	0.188	1482 °C [2700 °F]	
B24U	402	0.250	1704 °C [3100 °F]	
C24U	402	0.250	1871 °C [3400 °F]	
R24U	402	0.250	1482 °C [2700 °F]	
S24U	402	0.250	1482 °C [2700 °F]	
ALUMINA	ALUMINA			
B24U	617	0.275 ^[1]	1704 °C [3100 °F]	Oxidizing, Inert or Vacuum
C24U	617	0.275 ^[1]	1871 °C [3400 °F]	
R24U	617	0.275 ^[1]	1482 °C [2700 °F]	
S24U	617	0.275 ^[1]	1482 °C [2700 °F]	
For duplex elements use order code pre-fix letter twice. Example: RR24U	[1] Sheath supplied with 3/8" O.D. 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" O.D. 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" increments.	

All assemblies are provided with wire seal fitting except platinum element assemblies in Alloy protection tubes.

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

Teflon® is a registered trademark of E. I. du Pont de Nemours and Company.