The straight base metal thermocouple elements illustrated on this catalog page are replacement elements for use in Pyromation's complete industrial thermocouple assemblies as found elsewhere in this catalog section. These replacement elements are also compatible for use in other manufacturers' thermocouple assemblies. These thermocouples are available as bare wire or ceramic insulated elements, with options as listed below, and with special construction designs.
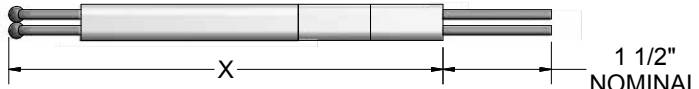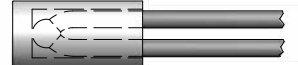
BARE ELEMENT

INSULATED ELEMENT

DUPLEX INSULATED

X

1 1/2"
NOMINAL

INSULATED JUNCTION

TWIST WELD

TIG WELD

ORDER CODES

Example Order Number:
1	2		3	4
K8	C	M	- 24 -	1,341

1 Single Straight Element Type

CODE (Type + Wire Gauge)				DESCRIPTION
J8		J14	J20	Iron - Constantan
K8	K11	K14	K20	Chromel - Alumel
N8		N14		Nicrosil - Nisil

DUPLEX STRAIGHT ELEMENTS

Use thermocouple type code letter twice. Example: JJ14 or KK11. Dual elements with ceramic insulators are supplied as two single elements.

2 Element Insulation

CODE	DESCRIPTION	WIRE GAUGE	INSULATOR DIMENSIONS (inches)	
			SINGLE	*DUPLEX*
O	Bare Element		None Used	
C	Oval Ceramic	8 Ga.	0.500 x 0.281	
		11 Ga.	0.375 x 0.218	
		14 Ga.	0.313 x 0.188	
R	Round Ceramic	8 Ga.	0.465 O.D.	0.500 O.D.
		11 Ga.	0.465 O.D.	0.500 O.D.
		14 Ga.	0.250 O.D.	0.320 O.D.
		20 Ga.	0.150 O.D.	0.188 O.D.

The above insulated elements are supplied with refractory insulators: 1177 °C [2150 °F] maximum temperature.

Element Options

CODE	DESCRIPTION
M	Special limits wire - types J and K (consult factory for other types)

4 Element Options

CODE	DESCRIPTION
0	Standard weld as noted below
1	Twist and tig weld (not available with 8 gauge duplex)
2	Tig weld without twist
L	Insulated hot junction
341	Single terminal block on element
342	Duplex terminal block on element

Unless specified by option numbers above, all 8, 11, and 14 gauge elements will be provided with Opt. 2 (tig weld without twist). 20 gauge elements will be provided with Opt. 1 (twist and tig weld). All elements, regardless of gauge, over 96" will be supplied with Opt. 1 (twist and tig weld).

3 Element "X" Length

LENGTH (inches)	LENGTH (inches)
12	30
18	36
24	

Specify other lengths in 1" increments.

Actual cut length will be 1(1/2)" longer than specified length to allow for terminal connections.

Pyromation, inc.