

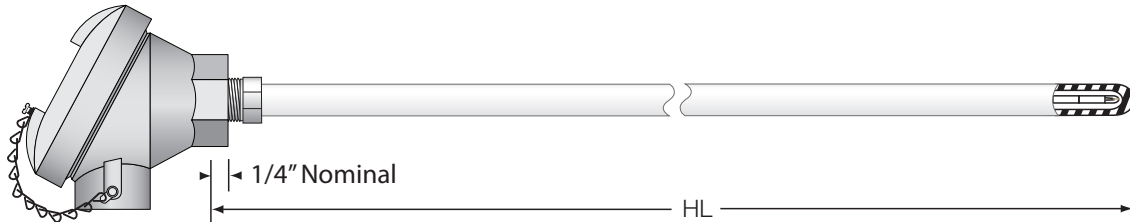
Noble Metal Straight Ceramic T/C

Noble Metal Ceramic Tube, Straight Thermocouple

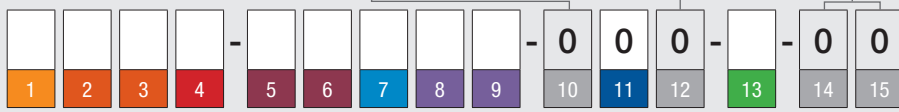
Elements are constructed of high quality material using modern techniques to construct the hot junction. Other high quality components are designed to meet rugged requirements. Mullite protection pipes are impervious to gases at high temperature. They have good resistance to thermal shock but poor resistance to mechanical shock; they should be mounted vertically.

Aluminum oxide protection tubes have fair resistance to thermal shock and mechanical shock. They are impervious to gases up to 3200°F.

Primary metal industry, heat treat furnaces, forging furnaces and bright annealing. Suitable for ceramics and glass industries. Semiconductor manufacturing and research laboratories.



Code	Field 10: Reserved	Code	Field 12: Reserved	Code	Field 14, 15: Reserved
0	Single Ceramic Tube	0	Reserved	00	Reserved



Field 1	Code	Type	Wire Material
Field 1	B	Type B	Pt, 6% Rh v Pt, 30% Rh
	R	Type R	Pt v Pt, 13% Rh
	S	Type S	Pt v Pt, 10% Rh**
	C	Type C	W, 5% Re v W, 26% Re*

Fields 2, 3	Gauge	Code	Limits
Fields 2, 3	24	24	Standard
		25	Special*
Fields 2, 3	26	26	Standard (26 GA. Only available with Type S)**

**Type C not available with Special Limits*

Field 4	Elements	Code	Junction Style	Ground
Field 4	Single	I	Butt Welded	Ungrounded
	Dual	H	Butt Welded	Ungrounded

Fields 5, 6	Code	O.D.	Protection Tube Material
Fields 5, 6	23	3/8"	Mullite (Not recommended above 1800°F)
	24	11/16"	
	25	1"	
	29	3/8"	Alumina
30	11/16"		
31	1"		
Fields 5, 6	34	7mm	

Ceramic tubes are stocked in increments of 6".

Field 7	Code	Cold End Termination	Code with Transmitter
Field 7	7	Solid pin quick disconnect plug**	
	L	Solid pin quick disconnect plug and jack**	
	M	Hollow pin quick disconnect plug**	
	N	Hollow pin quick disconnect plug and jack**	
	J	Quick disconnect jack**	
	Q	High Temperature quick disconnect plug**	
	R	High Temperature quick disconnect plug & jack**	
	Z	High Temperature jack**	
	9	Brass, open terminal, no external mounting threads	
	C	Brass, open terminal, with external mounting threads	
	8	Weatherproof, plastic head 350°F**	
	P	Weatherproof, plastic head, high temp. 800°F**	
	1	Cast Iron. Obsolete, replace with Code 2	
	3	Aluminum. Obsolete, replace with Code A	
	2	Weatherproof, cast iron head (NEMA 4X)***	S*
	A	Weatherproof, aluminum head (NEMA 4X)***	T*
4	Weatherproof, 316 SS (NEMA 4X)***	U*	
E	Explosion proof, aluminum head (NEMA 4X)***	V*	
F	Explosion proof, blue epoxy, aluminum head (ATEX)***	W*	
G	Explosion proof, 316 SS head (NEMA 4X)***	X*	
H	Explosion proof, 316 SS head (ATEX)***	Y*	

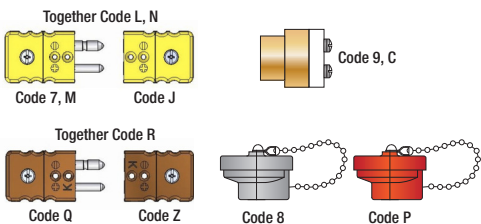
**Must specify the range of the sensor on the order. (i.e., 0°F - 800°F)
 **Available with Protection Tube (Fields 5, 6) Codes 29 & 34 only.
 ***Not available with Protection Tube (Fields 5, 6) Code 34.*

Field 13	Code	Size	Process Mounting Fitting
Field 13	0		None
	1	4"	Black Steel Sleeve
	4	4"	Black Steel Sleeve and Flange
	R	Specify length on order	Black Steel Sleeve
	V	Specify length on order	Black Steel Sleeve and Flange
	3	4"	Stainless Steel Sleeve
	5	4"	S.S. Sleeve and Flange
	T	Specify length on order	S.S. Sleeve
	W	Specify length on order	S.S. Sleeve and Flange
	7	1/2" NPT	Double-ended Bushing
	P	1/2" x 3/4"	Double-ended Bushing (Only available with Protection Tubes, Code 23 & 29 from Fields 5 & 6)

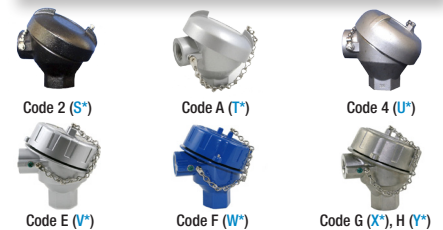
Fields 5,6 Code	Mounting Fitting NPT Sizes (Except as noted for code "P" in field 13)
23, 29, 34	1/2" NPT
24, 30	3/4" NPT
25, 31	1" NPT

Field 11	Code	Tube Seal
Field 11	0	None, n/a with fields 1, 2 & 3 = C24
	8	Sealed and filled with Argon Gas

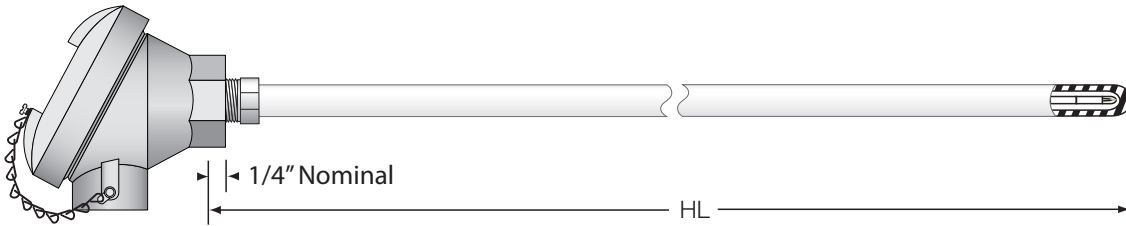
Fields 8, 9	Code	Hot Length "HL"
Fields 8, 9	HL	Enter Hot Length in inches using two digits NOTE: If over 98", specify 99 = "length" on order



***Add a Transmitter**
 Select the code in the Transmitter Code column to add a fully isolated 4 to 20 mA two-wire loop powered temperature transmitter for in-head assembly. You must specify the range of the sensor on the order. (i.e. 0°F - 800°F)



Noble Metal Straight Ceramic T/C



Common Model Numbers

(The numbers below are just some of the more common numbers for this product. There are too many combinations to list them all.)

B24I-00018-000-0-00
 B24I-30A18-000-7-00
 B24I-30A20-000-7-00

R24H-30A18-000-7-00
 R24I-25218-000-5-00
 R24I-30A12-000-7-00
 R24I-30A18-000-7-00
 R24I-30A18-000-T-00

S24H-24A24-000-R-00
 S24H-24A24-000-R-06
 S24H-29A10-000-1-00
 S24H-30A29-000-7-00
 S24I-24A24-000-R-00
 S24I-30A18-000-7-00
 S24I-30A43-000-P-00
 S24I-31A24-000-4-00

S26H-30914-000-3-00
 S26H-30922-000-3-00