

# STANDARD CERAMIC PROTECTION TUBE THERMOCOUPLES

## HOW TO CONSTRUCT A PART NUMBER

**Table 1 (Style):** See next page and choose the Style which best suits your application and enter below

**Table 2 (Connection Head)**

HEAD CODES
0 = NO HEAD
1= CAH (CAST ALUMINUM)
2= CIH (CAST IRON)
3= PPH (POLYPROPYLENE)
4= EPH (EXPLOSION PROOF)
5= MAH (MINI ALUMINUM)
6= (SPECIAL)

**Table 3 (ANSI Designation)**

SINGLE	DUAL	ALLOY
J	JJ	Iron/Constantan
K	KK	Chromel/Alumel
T	TT	Copper/Constantan
E	EE	Chromel/Constantan
S	SS	Platinum vs. Platinum 10% Rhodium
R	RR	Platinum vs. Platinum 13% Rhodium
B	BB	Plt 6% Rhd. Vs. Plt 30% Rhd
W	WW	Tungsten 5 % Rhenium vs Tg. 26% Rh
N	NN	Nicrosil/Nisil

CODE#	WIRE GAUGE
08	.125"
14	.064"
20	.032"
24	.020"

**Table 4 (Element Size)**



**Table 5 (Protection Tubes)**

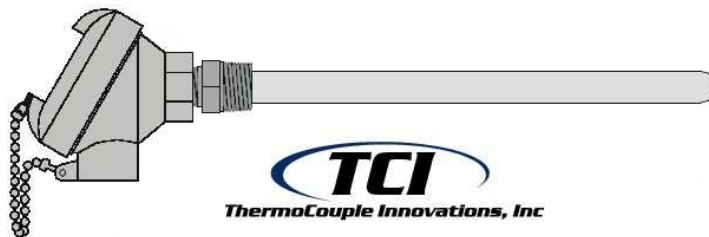
CODE#	MATERIAL	MAX TEMP.	TUBE O.D.	MAX SIZE WIRE GA.
M2	MULLITE	3200 F	7/16"	20
M3	MULLITE	3200 F	11/16"	14
M4	MULLITE	3200 F	1"	8
A2	ALUMINA	3400 F	7/16"	20
A3	ALUMINA	3400 F	11/16"	14
A4	ALUMINA	3400 F	1"	8
A5	ALUMINA	3400 F	¾"	24
SC	SILCON CARBIDE	3000 F	1-3/4"	8
SCW	SIL. CARBIDE W/COLLAR	3000 F	1-3/4"	8

**Table 6 (Process length in inches)**

SPECIFY LENGTH INCHES
Example: 048 = 48"

**Table 7 (Options)**

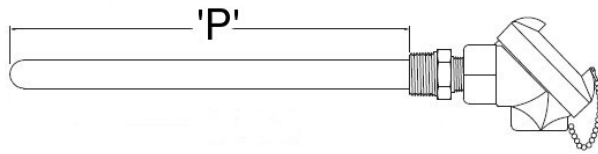
CODE
N = None
F = MOUNTING FLANGE



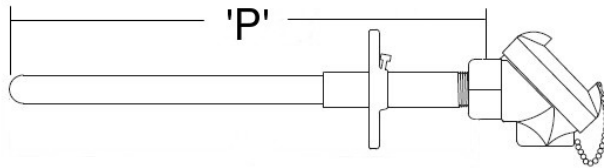
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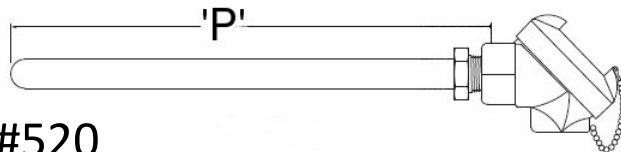
## STANDARD CERAMIC PROTECTION TUBE THERMOCOUPLE STYLES



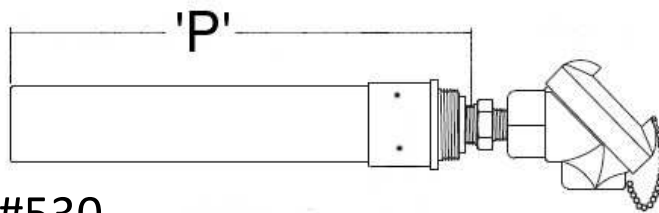
**#500** CERAMIC CLOSED END PROTECTION TUBE  
WITH CEMENTED N.P.T. MOUNTING AND SCREW  
COVER HEAD (SPECIFY THREAD SIZE)



**#510** CERAMIC CLOSED END PROTECTION TUBE WITH 4"  
C.S. SLEEVE AND SCREW COVER HEAD  
(SLEEVE SIZE DETERMINED BY TUBE SIZE)



**#520** CERAMIC CLOSED END PROTECTION TUBE  
MOUNTED TO SCREW COVER HEAD



**#530** DOUBLE PROTECTION TUBE ASSEMBLY  
SILICON CARBIDE WITH COLLAR MOUNTED MULLITE  
SECONDARY TUBE AND SCREW COVER HEAD  
(OTHER TUBE SIZES AVAILABLE: SPECIFY)