ThermoCouple Innovations, Inc

MGO Thermocouples

(MGO)MINERAL INSULATED 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 (ANSI Designation)

CODE	ALLOY	MAX TEMP. RANGE
J	Iron/Constantan	1400 F (750 C)
K	Chromel/Alumel	2300 F (1250 C)
T	Copper/Constantan	700 F (350 C)
E	Chromel/Constantan	1600 F (900 C)
S	Platinum vs. Platinum 10% Rhodium	2700 F (1450 C)
R	Platinum vs. Platinum 13% Rhodium	2700 F (1450 C)
B	Plt 6% Rhd. Vs. Plt 30% Rhd	3100 F (1700 C)
W	Tungsten 5 % Rhenium vs Tg. 26% Rh	4200 F (2300 C)
N	Nicrosil/Nisil	2372F (1300 C)

JUNCTION TYPE	GROUNDED	UNGROUNDED	EXPOSED
Single	SG	SU	SE
Dual	GG	UU	EE
Dual Separate	N/A	US	ES

Table 3 (Junction Type)

Table 4 (Sheath Diameter)

CODE	03	04	10	20	30	40	50	60	70	80
SIZE	.032”	.040”	.062”	.090”	.125”	.188”	.250”	.312”	.375”	.500”

CODE	MATERIAL	TEMP. RATING
1	304 S. Steel	1650 F (899 C)
2	310 S. Steel	2100 F (1149 C)
3	316 S. Steel	1700 F (927 C)
4	Inconel 600	2100 F (1149 C)
5*	Hastelloy C	2300 F (1260 C)
6*	Molybdenum	4000 F (2200 C)

*NOT AVAILABLE IN SOME DIAMETERS

Table 5 (Sheath Material)

Table 6 “P” (Process length in inches)

Example: 048C= 48-1/2”

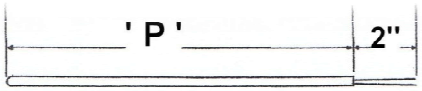
CODE	A	B	C	D	E
FRACTIONS	0	¼”	½”	¾”	SPL

Table 7 “L” (Lead length if Applicable)

SPECIFY LENGTH INCHES
IF NOT NEEDED USE “000”

Table 8 (Options)

CODE
N = None
X = See Description



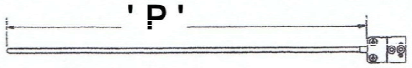
#100 MGO ELEMENT WITH STD 2" LEADS

#120 CERAMIC WAFER HEAD (1000F)
#121 PVC WAFER HEAD (350F)

#130 STANDARD CONNECTING PLUG (400F)
#131 HIGHTEMP CONNECTING PLUG (660F)

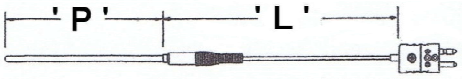
#140 STANDARD CONNECTING JACK (400F)
#141 HIGHTEMP CONNECTING JACK (660F)

#150 MINITAURE CONNECTING PLUG (400F)
#151 HIGHTEMP MINI CONNECTING PLUG (660F)



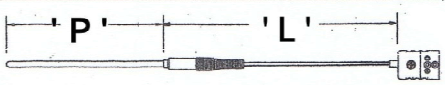
#160 MINITAURE CONNECTING JACK (400F)
#161 HIGHTEMP MINI CONNECTING JACK (660F)

#200 FIBERGLASS STRANDED WIRE
#201 FIBERGLASS WITH OVERBRAID
#202 TEFLON WIRE
#203 TEFLON WITH OVERBRAID



STANDARD PLUG

#210 FIBERGLASS STRANDED WIRE
#211 FIBERGLASS WITH OVERBRAID
#212 TEFLON WIRE
#213 TEFLON WITH OVERBRAID



STANDARD JACK

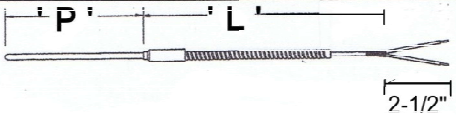
#220 FIBERGLASS STRANDED WIRE
#221 FIBERGLASS WITH OVERBRAID
#222 TEFLON WIRE
#223 TEFLON WITH OVERBRAID

MINI PLUG

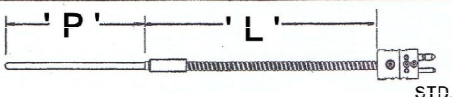
#230 FIBERGLASS STRANDED WIRE
#231 FIBERGLASS WITH OVERBRAID
#232 TEFLON WIRE
#233 TEFLON WITH OVERBRAID

MINI JACK

#240 FIBERGLASS STRANDED WIRE
#241 FIBERGLASS WITH OVERBRAID
#242 TEFLON WIRE
#243 TEFLON WITH OVERBRAID

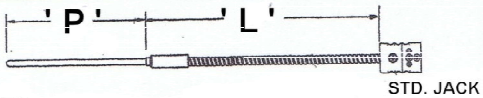


#250 FIBERGLASS WIRE IN FLEXIBLE S.S. ARMOR
#251 TEFLON WIRE IN FLEXIBLE S.S. ARMOR



STD. PLUG

#260 FIBERGLASS WIRE IN FLEXIBLE S.S. ARMOR
#261 TEFLON WIRE IN FLEXIBLE S.S. ARMOR



STD. JACK

#270 FIBERGLASS WIRE IN FLEXIBLE S.S. ARMOR
#271 TEFLON WIRE IN FLEXIBLE S.S. ARMOR