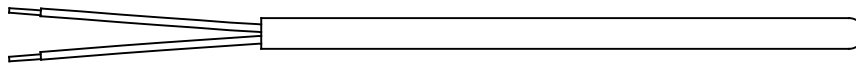
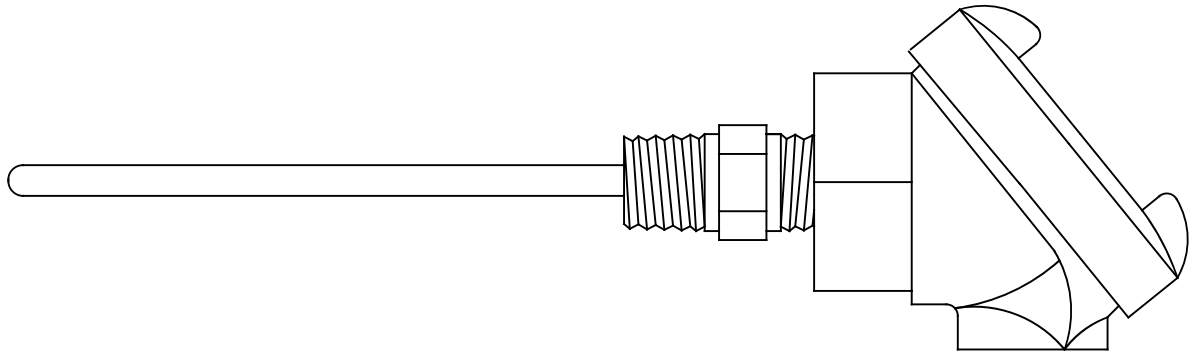
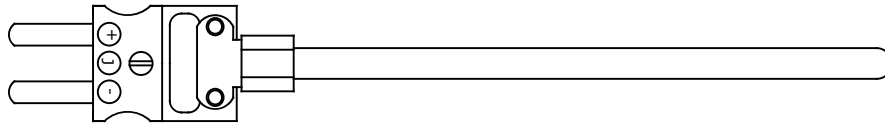
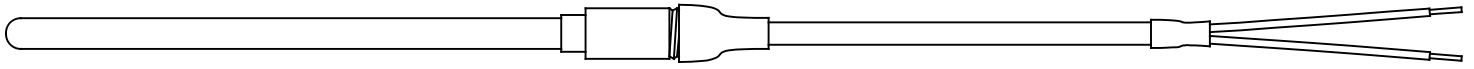
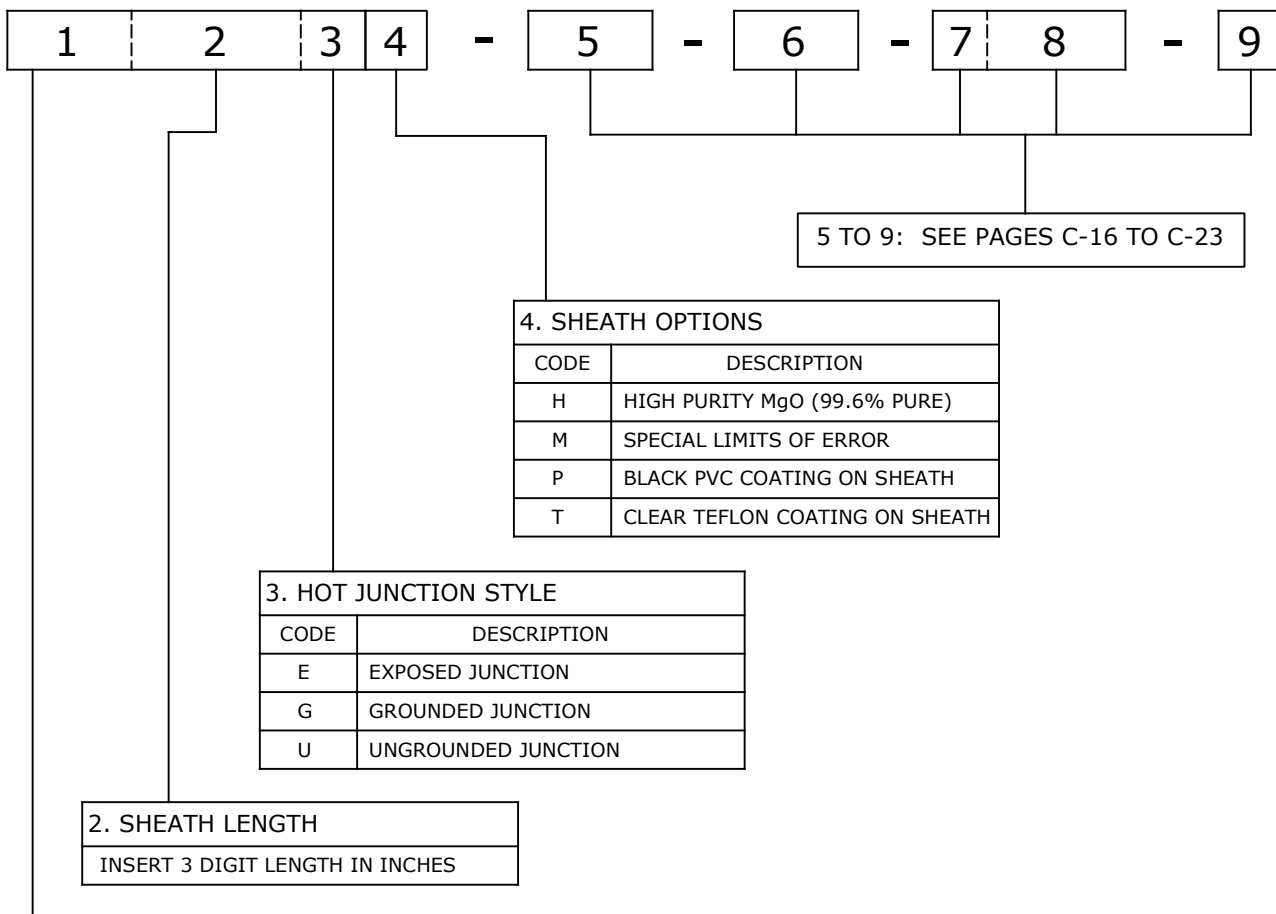


MgO THERMOCOUPLES



Acrolab's Magnesium Oxide (MgO) thermocouples are manufactured using standard purity (96%) Magnesium Oxide mineral insulation in a fully annealed metal sheath. They are available in diameters of 0.032" to 3/8" OD and are extremely flexible. The following pages will aid you in selecting a MgO Thermocouple to suit your application's needs.

MgO THERMOCOUPLES [1 to 4]



5 TO 9: SEE PAGES C-16 TO C-23

4. SHEATH OPTIONS	
CODE	DESCRIPTION
H	HIGH PURITY MgO (99.6% PURE)
M	SPECIAL LIMITS OF ERROR
P	BLACK PVC COATING ON SHEATH
T	CLEAR TEFLON COATING ON SHEATH

3. HOT JUNCTION STYLE	
CODE	DESCRIPTION
E	EXPOSED JUNCTION
G	GROUNDED JUNCTION
U	UNGROUNDED JUNCTION

2. SHEATH LENGTH
INSERT 3 DIGIT LENGTH IN INCHES

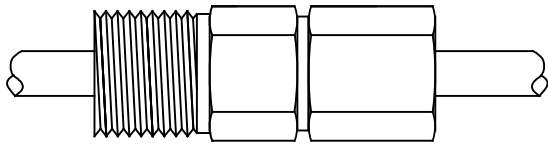
1. CALIBRATION, TUBE DIAMETER AND MATERIAL								
CALIBRATION	MATERIAL	0.032" OD	0.040" OD	1/16" OD	1/8" OD	3/16" OD	1/4" OD	3/8" OD
SINGLE ORDER CODE NUMBERS								
E	316 SS	N/A	N/A	E18	E28	E38	E48	E68
J	316 SS	J008	J08	J18	J28	J38	J48	J58
J	INCONEL 600	J007	J07	J17	J27	J37	J47	J67
K	310SS	N/A	N/A	K14	K24	K34	K44	K64
K	316 SS	K008	K08	K18	K28	K38	K48	K68
K	446 SS	N/A	N/A	N/A	N/A	N/A	K45	K65
K	INCONEL 600	K007	K07	K17	K27	K37	K47	K67
N	INCONEL 600	N/A	N/A	N17	N27	N37	N47	N67
T	316 SS	N/A	N/A	T18	T28	T38	T48	T68
DUAL ORDER CODE NUMBERS								
E	316 SS	N/A	N/A	EE18	EE28	EE38	EE48	EE68
J	316 SS	N/A	N/A	JJ18	JJ28	JJ38	JJ48	JJ48
J	INCONEL 600	N/A	N/A	JJ17	JJ27	JJ37	JJ47	JJ67
K	310SS	N/A	N/A	N/A	KK24	KK34	KK44	KK64
K	316 SS	N/A	N/A	KK18	KK28	KK38	KK48	KK68
K	446 SS	N/A	N/A	N/A	N/A	N/A	KK45	KK65
K	INCONEL 600	N/A	N/A	KK17	KK28	KK38	KK48	KK68
N	INCONEL 600	N/A	N/A	N/A	NN27	NN37	NN47	NN67
T	316 SS	N/A	N/A	TT18	TT28	TT38	TT48	TT68

MgO THERMOCOUPLES [5]

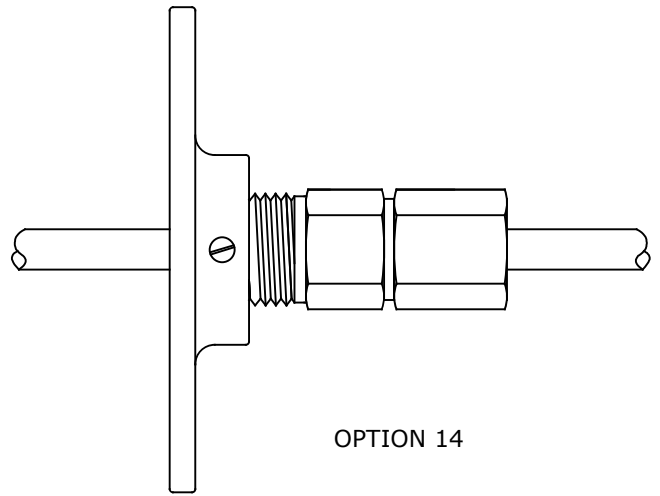


5. ELEMENT FITTING		
CODE	FITTING TYPE	DESCRIPTION
00	NO ELEMENT MOUNTING FITTING	
01	STAINLESS STEEL, ONE TIME ADJUSTABLE COMPRESSION FITTING	1/8" NPT, STAINLESS STEEL FERRULE
02	STAINLESS STEEL, ONE TIME ADJUSTABLE COMPRESSION FITTING	1/2" NPT, STAINLESS STEEL FERRULE
05	STAINLESS STEEL, ONE TIME ADJUSTABLE COMPRESSION FITTING	1/4" NPT, STAINLESS STEEL FERRULE
09	STAINLESS STEEL, RE-ADJUSTABLE COMPRESSION FITTING	1/8" NPT, LAVA PACKING GLAND
12	STAINLESS STEEL, RE-ADJUSTABLE COMPRESSION FITTING	1/8" NPT, TEFLON FERRULE
14	ADJUSTABLE STEEL FLANGE WITH BRASS COMPRESSION FITTING	3.5" OUTSIDE DIAMETER
15	BRASS, ADJUSTABLE COMPRESSION FITTING	1/8" NPT, BRASS FERRULE
18	304 STAINLESS STEEL WELD PAD (1" X 1" X 1/8" THICK STANDARD)	1/8" NPT, BRASS FERRULE
19	BRASS, ADJUSTABLE SPRING LOADED WELL FITTING	1/2" NPT, STAINLESS STEEL FERRULE
25	BRASS, ADJUSTABLE COMPRESSION FITTING	1/4" NPT, BRASS FERRULE
20(X)	BAYONET CAP AND SPRING (SPECIFY "X" DIMENSION)	AVAILABLE FOR 1/8" AND 3/16" DIAMETER SHEATHS
21(X)	FIXED STAINLESS STEEL BUSHING (SPECIFY "X" DIMENSION)	1/8" NPT, AVAILABLE FOR 1/16", 1/8", 3/16" AND 1/4" OD SHEATHS ONLY
23(X)	FIXED STAINLESS STEEL BUSHING (SPECIFY "X" DIMENSION)	1/4" NPT, AVAILABLE FOR 1/16", 1/8", 3/16" AND 1/4" OD SHEATHS ONLY
24(X)	FIXED STAINLESS STEEL BUSHING (SPECIFY "X" DIMENSION)	1/2" NPT, AVAILABLE FOR 1/8", 3/16", 1/4" AND 3/8" OD SHEATHS
25(X)	FIXED STAINLESS STEEL BUSHING (SPECIFY "X" DIMENSION)	3/4" NPT, AVAILABLE FOR 1/8", 3/16", 1/4" AND 3/8" OD SHEATHS
AA	SPECIAL FITTING, DESCRIBE	

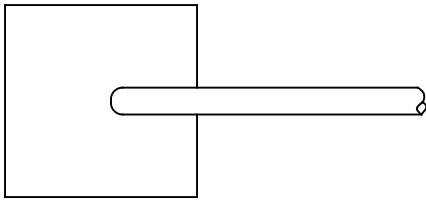
MgO THERMOCOUPLES [5]



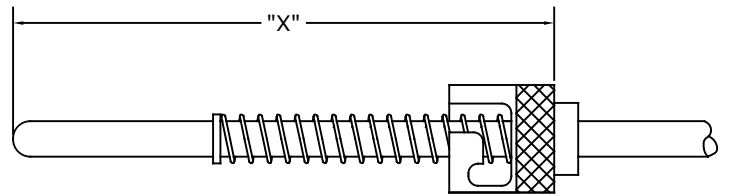
OPTIONS 01 TO 15, AND 25



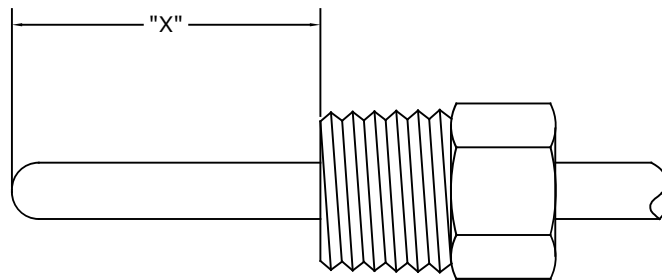
OPTION 14



OPTION 18



OPTION 20(X)



OPTIONS 21(X) TO 25(X)

MgO THERMOCOUPLES [6]

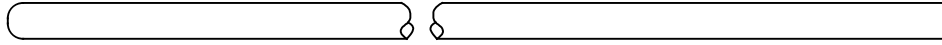


6A. SHEATH TERMINATIONS	
CODE	DESCRIPTION
01	SQUARED END
02	1" STRIPPED LEADS
22	3" STRIPPED LEADS
37	1/2" NPT STEEL HEX. FITTING WITH 3" STRIPPED LEADS
38	1/2" NPT STAINLESS STEEL HEX. FITTING WITH 3" STRIPPED LEADS

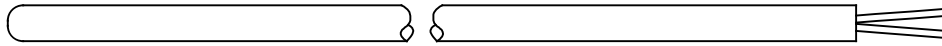
6B. PLUG & JACK TERMINATIONS	
CODE	DESCRIPTION
03	STANDARD SIZE PLUG 1/16" THROUGH 1/4" OD SHEATH ONLY
04	STANDARD SIZE PLUG WITH MATING JACK
05	MINIATURE SIZE PLUG 1/16" THROUGH 3/16" OD SHEATH ONLY
06	MINIATURE SIZE PLUG WITH MATING JACK
39	STANDARD SIZE JACK 1/16" THROUGH 1/4" OD SHEATHS ONLY
40	STANDARD SIZE JACK WITH MATING PLUG
41	MINIATURE SIZE JACK 1/16" THROUGH 1/4" SHEATH ONLY
42	MINIATURE SIZE JACK WITH MATING PLUG
AA	SPECIAL FITTING (DESCRIBE)

MgO THERMOCOUPLES [6]

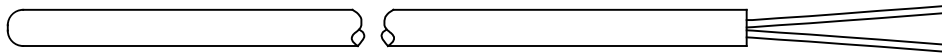
SHEATH TERMINATIONS [6A]



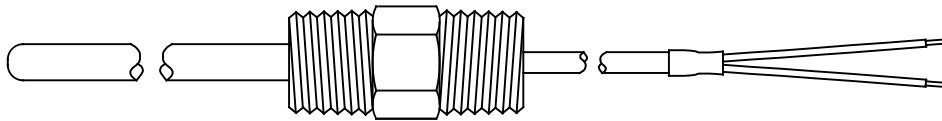
OPTION 01



OPTION 02

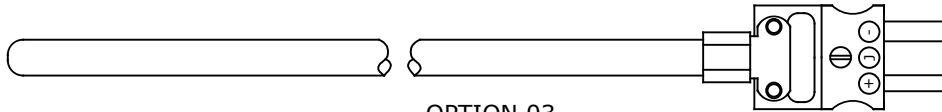


OPTION 22

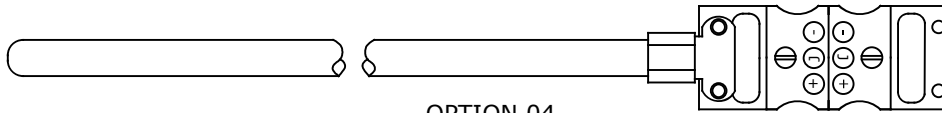


OPTIONS 37 AND 38

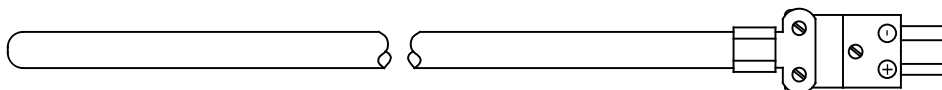
PLUG AND JACK TERMINATIONS [6B]



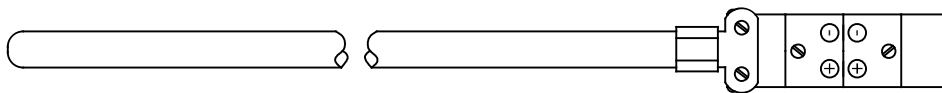
OPTION 03



OPTION 04



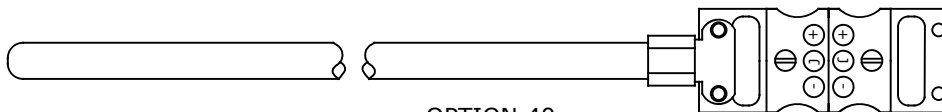
OPTION 05



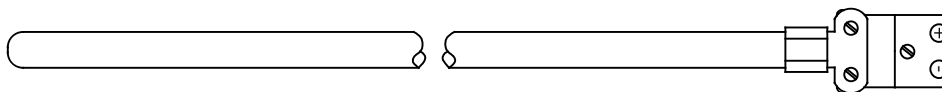
OPTION 06



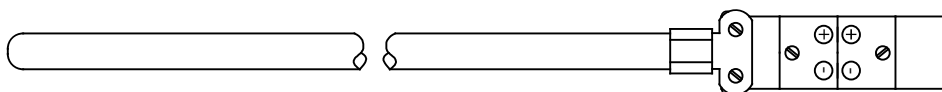
OPTION 39



OPTION 40



OPTION 41



OPTION 42

MgO THERMOCOUPLES [6]

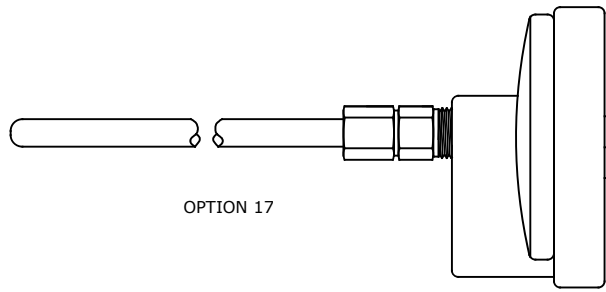


6C. HEAD TERMINATIONS	
CODE	DESCRIPTION
17	MINIATURE PLASTIC HEAD, 1/4" NPT PROCESS AND CONDUIT OPENINGS
31	CAST ALUMINUM SCREW COVER HEAD WITH NO PROCESS THREAD
32	CAST ALUMINUM SCREW COVER HEAD WITH 1/2" NPT STEEL HEX. FITTING
33	CAST ALUMINUM SCREW COVER HEAD WITH 1/2" NPT SS HEX. FITTING
34	CAST IRON SCREW COVER HEAD WITH NO PROCESS THREAD
35	CAST IRON SCREW COVER HEAD WITH 1/2" NPT STEEL HEX. FITTING
36	CAST IRON SCREW COVER HEAD WITH 1/2" NPT SS HEX. FITTING
TR	HEAD MOUNTED TRANSMITTER (DETAILS TO BE GIVEN)

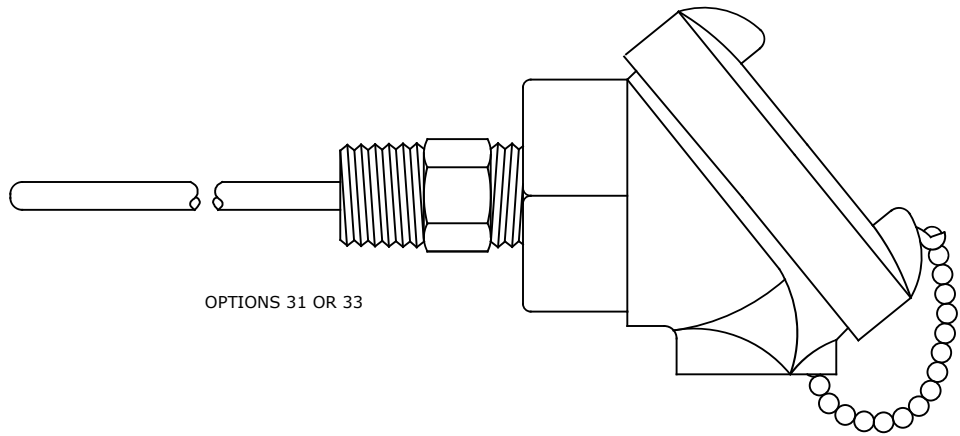
6D. LEADWIRE TRANSITIONS	
CODE	DESCRIPTION
15	EXTENSION LEADWIRE TRANSITION FITTING AND RELIEF SPRING
15H	HIGH TEMPERATURE TRANSITION FITTING
16	EXTENSION LEADWIRE TRANSITION FITTING SEALED WITH HEAT SHRINK
19	INLINE TRANSITION FITTING
BB	SPECIAL TERMINATION (DESCRIBE)

MgO THERMOCOUPLES [6]

HEAD TERMINATIONS [6C]

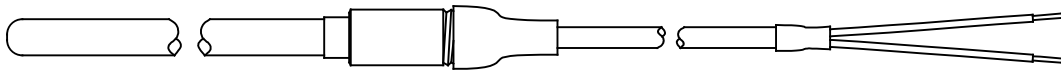


OPTION 17

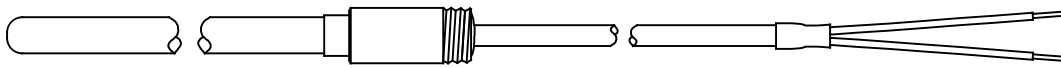


OPTIONS 31 OR 33

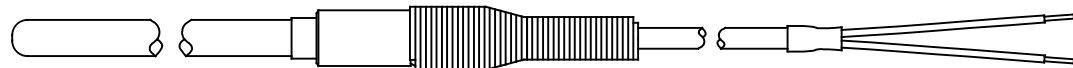
LEADWIRE TRANSITIONS [6D]



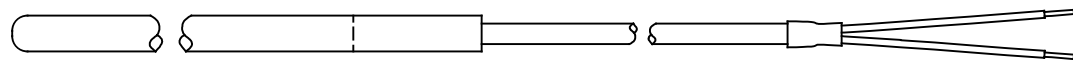
OPTION 15



OPTION 15H



OPTION 16



OPTION 19

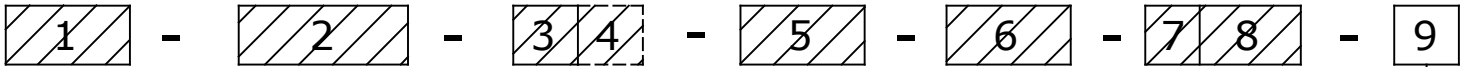
MgO THERMOCOUPLES [7,8]



7. EXTENSION LEADWIRE							
CODE	DESCRIPTION	AVAILABLE CALIBRATIONS					TEMP. RATING
		J	K	T	E	N	
1	FIBERGLASS INSULATION - SOLID CONDUCTOR	*	*	*	*	*	900° F
2	FEP TEFLON INSULATION - STRANDED CONDUCTOR - SS ARMOUR	*	*	*	*		400° F
3	HI-TEMP FIBERGLASS INSULATION - SOLID CONDUCTOR	*	*				1300° F
4	FIBERGLASS INSULATION - STRANDED CONDUCTOR - SS ARMOUR	*	*	*	*		900° F
5	FEP TEFLON INSULATION - STRANDED CONDUCTOR	*	*	*	*		900° F
6	POLYVINYL INSULATION - STRANDED CONDUCTOR	*	*	*	*		221° F
7	EXTREME HI-TEMP CERAMIC FIBER - SOLID CONDUCTOR		*				2200° F
8	FIBERGLASS INSULATION - STRANDED CONDUCTOR	*	*	*	*		900° F
9	FIBERGLASS INSULATION - STRANDED CONDUCTOR - STAINLESS STEEL OVERBRAID	*	*				900° F
CC	SPECIAL LEADWIRE, DESCRIBE						

8. LEADWIRE LENGTH
INSERT 3 DIGIT LENGTH IN INCHES

MgO THERMOCOUPLES [9]



9. EXTENSION WIRE TERMINATIONS	
CODE	DESCRIPTION
1	LEADS NOT STRIPPED
2	LEADS STRIPPED 4"
3	LEADS STRIPPED 4" WITH SPADE LUGS
4	STANDARD SIZE MALE PLUG
5	STANDARD SIZE MALE PLUG WITH MATING FEMALE JACK
6	MINIATURE MALE PLUG
7	MINIATURE MALE PLUG WITH MATING FEMALE JACK
8	12" SPLIT LEADS WITH 2" STRIPPED LEADS WITH SPADE LUGS AND 1/2" BX CONNECTOR
9	STANDARD SIZE FEMALE JACK
10	STANDARD SIZE FEMALE JACK WITH MATING MALE PLUG
11	MINIATURE FEMALE JACK
12	MINIATURE FEMALE JACK WITH MATING MALE PLUG
13	STANDARD SIZE 3-PIN MALE PLUG
14	STANDARD SIZE 3-PIN FEMALE JACK
15	STANDARD SIZE 3-PIN MALE PLUG WITH MATING FEMALE JACK
16	STANDARD SIZE 3-PIN FEMALE JACK WITH MATING MALE PLUG