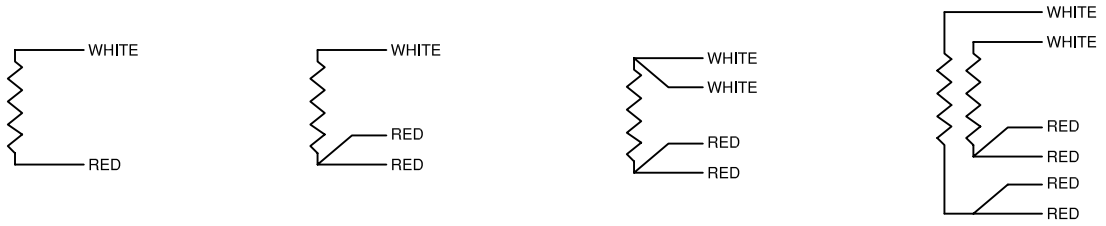
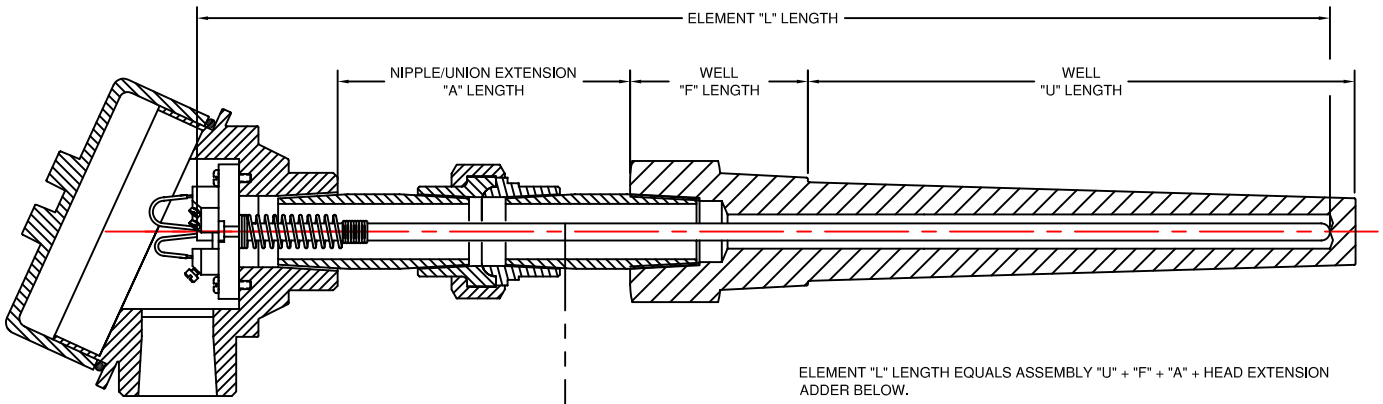
INDUSTRIAL RTD'S

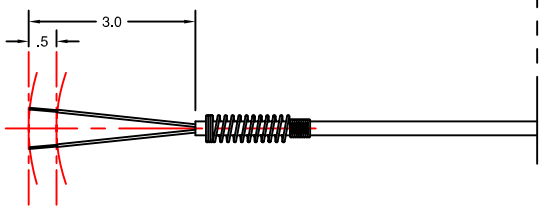
Type RTD and DRTD Resistant Temperature Elements are available standard and HT range with a wire wound bulb manufactured with CERAMO®, a metal sheath with a hard packed MgO insulation. The sheath material is usually a standard 316 stainless steel or a nickel base alloy. The MT and LT are tube construction with Teflon or fiberglass insulated wires attached to a thin film bulb sealed at the tip. Elements are spring loaded by means of a self gripping stainless steel spring which backs up under the terminal block for a constant tip contact inside the well. The elements terminate to 3" of stranded and insulated nickel clad copper lead wire epoxy sealed into the end of the sheath or a transition piece.

RTD's in the LT temperature range can be purchased in a stocked 28.5" element length and cut to size at the site with a simple tube cutter. Refer to Section IMRD Document number TE-SB101506-IMRD-130 for additional information and ordering code.

Elements may be ordered by measuring the "L" length of the existing element or using the guide below.







ELEMENT "L" LENGTH EQUALS ASSEMBLY "U" + "F" + "A" + HEAD EXTENSION ADDER BELOW.

CODE	HEAD EXTENSION ADDER MATERIAL	ADDER
AN	ALUMINUM	1.5"
SN	STAINLESS STEEL	1.5"
AE	ALUMINUM	1.5"
SE	STAINLESS STEEL	1.5"
XD	ALUMINUM	2.38"
A	CAST IRON	2.25"
L	POLYPROPYLENE	2.25"
AX	ALUMINUM, LARGE DEVICE, EPOXY COATED	2"

☐RTD☐☐☐—☐—☐—☐
D 14 PT5 LT —4W— CLA — 12

CODE	STRUCTURE
	SINGLE (LEAVE BLANK)
D	DUPLEX

CODE	SHEATH DIAMETER
316	3/16" (.187)
14	1/4" (.25")

CODE	ELEMENT TYPE			
	STANDARD	MATERIAL	TCR	RESISTANCE @ 0° C.
	DIN 43760	PLATINUM	.00385	100 OHMS (LEAVE BLANK)
PT5	DIN 43760	PLATINUM	.00385	500 OHMS
PT1	DIN 43760	PLATINUM	.00385	1000 OHMS (LT RANGE ONLY)
JIS	JIS-C-1604-81	PLATINUM	.003916	100 OHMS
SA	RC21-4-1966	PLATINUM	.003923	98.129 OHMS
CU		COPPER	.00427	10 OHMS (LT RANGE ONLY)
NI		NICKEL	.00672	120 OHMS

CODE	TEMPERATURE RANGE
LT	-58 to +500° F (-50 to +260° C.)
MT	-58 to +900° F (-50 to +482° C.)
	-292 to +932° F (-180 to +500° C) (LEAVE BLANK)
HT	-292 to +1202° F (-180 to +650° C) (NOTE 1)

CODE	SYSTEM
2W	2 WIRE (4 WIRE TOTAL WITH DUPLEX)
	3 WIRE (LEAVE BLANK)
4W	4 WIRE (8 TOTAL WITH DUPLEX)

CODE	ACCURACY
	ASTM E1137 CLASS B (LEAVE BLANK)
CLA	ASTM E1137 CLASS A

CODE	ELEMENT LENGTH
	(IN INCHES)

Notes:
(1) Standard in single construction, 3 wire, class B, Inconel sheath material.

The information contained hereon shall be considered the sole property of Thermo Electric Company, Inc. The recipient thereof agrees not to disclose or reproduce said information to parties outside the recipients organization without the written permission of Thermo Electric.