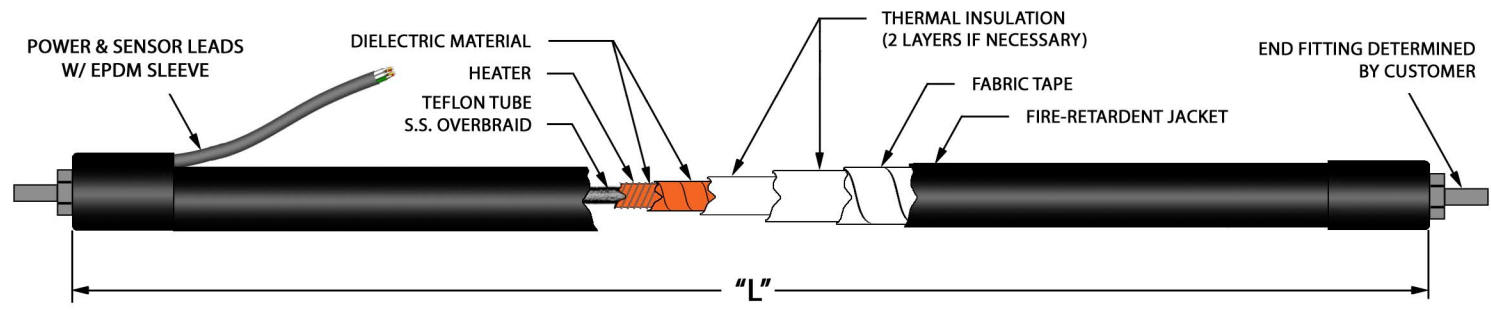


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

**PRODUCT REF. NO. COMPRISES  
212-X-XXX**

**(E.G.) 212-6-30'**  
**212 = BASIC P/N REFERENCE**  
**-6 = SIZE OF CORE (i.e. 3/8" O.D.)**  
**-30' = LENGTH OF HOSE**



**SELECTION OF RESISTANCE WIRE**  
(TYPICAL METHOD)

1. DETAIL WATTS/FT REQUIRED, USING EMPIRICAL DATA TAKING INTO ACCOUNT  $\Delta T$ , HOSE SIZE, ETC.
2. SPECIFY SUPPLY VOLTAGE "V"
3. SPECIFY HOSE LENGTH "L" AND DIA. "D"
4. CALCULATE TOTAL WATTAGE ( $W = W_{perFT} \times L$ )
5. CALCULATE TOTAL RESISTANCE ( $R = V^2/W$ )
6. SPECIFY WINDING PITCH "P"
7. CALCULATE NO. OF TURNS ( $N = L/P$ )
8. CALCULATE LENGTH PER TURNS "T"
9. CALCULATE TOTAL LENGTH ( $L = NT$ )
10. CALCULATE REQ'D RESISTANCE PER FT ( $R/L$ )
11. SELECT WIRE FROM RESISTANCE TABLE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		<b>TECHNICAL HEATERS, INC.</b> <b>THERMOLAB</b>	
TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±            .XX ±            °			
MATERIAL		APPROVALS	DATE
FINISH		DRAWN: BRUCE JONES	09-13-07
DO NOT SCALE DRAWING		CHECKED: DAVID ORTIZ	09-13-07
		ENGR: DAVID ORTIZ	09-13-07
		DESIGN APPD:	
<small>THIS DRAWING AND INFORMATION IS THE PROPERTY OF TECHNICAL HEATERS/THERMOLAB, INC. ALL DESIGN INFORMATION, INCLUDING BUT NOT LIMITED TO, PATENT RIGHTS ARE RESERVED FOR AND BY TECHNICAL HEATERS/THERMOLAB, INC. EXCEPT TO THE EXTENT RIGHTS ARE EXPRESSLY GRANTED IN WRITING TO OTHERS.</small>		SIZE: <b>D 32446</b>	CODE IDENT NO: <b>212 SERIES</b>
		SCALE: NONE	RELEASE DATE
		DRAWING NO. <b>NC</b>	
		SHEET 1 OF 1	