

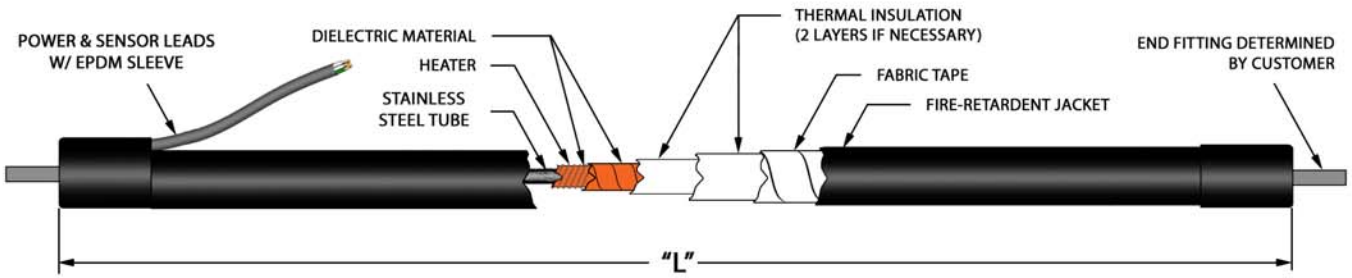
8 7 6 5 4 3 2 1

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

PRODUCT REF. NO. COMPRISES
500-X-XXX

(E.G.) 500-5-100'

500 = BASIC P/N REFERENCE
-5 = SIZE OF CORE (i.e. 5/16" I.D.)
-100' = LENGTH OF HOSE



SELECTION OF RESISTANCE WIRE
 (TYPICAL METHOD)

1. DETAIL WATTS/FT REQUIRED, USING EMPIRICAL DATA TAKING INTO ACCOUNT ΔT , 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. TOLERANCES ARE: FRACTIONS: .XX ± .XXX ±; DECIMALS: . ± .005 ±; ANGLES: ±		TECHNICAL HEATERS, INC. THERMOLAB	
APPROVALS			
DESIGNER: []		09-13-07	
CHECKED: []		09-13-07	
ENGR: []		09-13-07	
DESIGN APP'D: []			
FINISH:	THIS DRAWING AND INFORMATION IS THE PROPERTY OF TECHNICAL HEATERS, INC. AND IS LOANED TO THE CUSTOMER. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF TECHNICAL HEATERS, INC. EXCEPT TO THE EXTENT PERMITTED BY APPLICABLE LAW.		SIZE: D
DO NOT SCALE DRAWING		CODE IDENT NO: 32446	DRAWING NO: 500 SERIES
		SCALE: NONE	REVISION: NC
		RELEASE DATE:	SHEET 1 OF 1

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