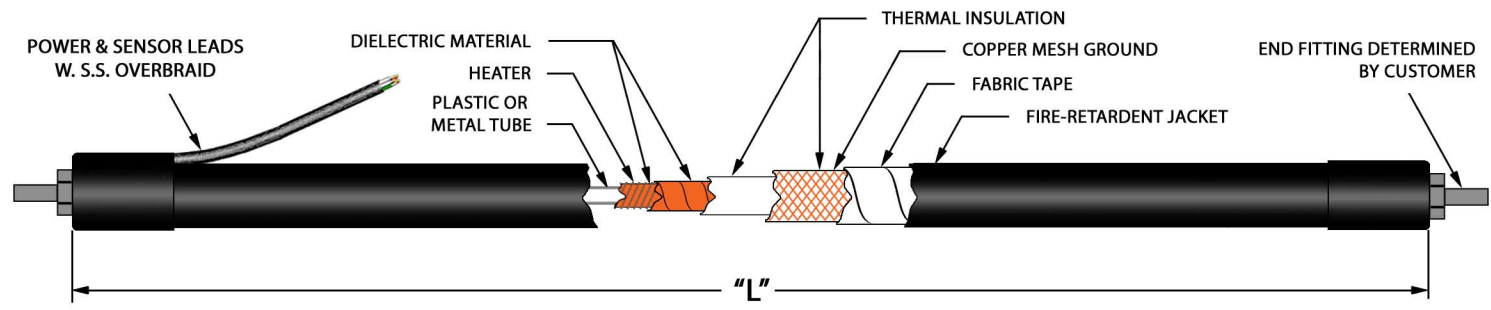


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

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

(E.G.) 702-6-30'
702 = 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 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		TECHNICAL HEATERS, INC. THERMOLAB			
TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± ± ±					
APPROVALS		DATE	CLASS 1, DIVISION II, GROUP C & D CERTIFIED HEATED HOSE		
DRAWN: BRUCE JONES		09-13-07			
CHECKED: DAVID ORTIZ		09-13-07			
ENGR: DAVID ORTIZ		09-13-07			
DESIGN APPD:		REVISION			
FINISH		SIZE	CODE IDENT NO.	DRAWING NO.	REVISION
DO NOT SCALE DRAWING		D	32446	702 & 702S	NC
		SCALE: NONE	RELEASE DATE	SHEET 1 OF 1	