TubeTrace[®] & ThermoTube

For design assistance contact Thermon or visit www.thermon.com and download CompuTrace[®] IT Computer Design Software for Instrument Tubing

	SE-12 F1-63-7-ATP-1-M ⁷							
Bundle Type SE = Single Tube ME = Multiple Tubes	Process Tube O.D.	Process Tube Material —				Process		
	<u>Metric</u> 6 = 6 mm	A = $316LSS$ Welded	Number	Heater Cable Option	— Jacket Type ATP ⁵	Wall T 030 =		
	8 = 8 mm	As = 316Ti SS Welded	of Tubes ⁶	1=BN (HPT Only)	TPU	032 =		
	10 = 10 mm	B = B68 Copper	1	3=OJ (BSX Only)		035 =		
	12 = 12 mm	C = PFA Teflon ²	2	7=OJ/Fluoropolymer		040 =		
	<u>Imperial</u>	$D = Monel^3$	3	8=Division 1 Approved 4		047 =		
	1 = 1/8''	E = Titanium	4			049 =		
	2 = 1/4"	F = 316L SS Seamless	Heat Trace Ty	ype (See Heat Trace Application E	Below)	062 =		
	3 = 3/8"	Fs = 316Ti SS Seamless	<u>Self-Regulating</u>	g Cables Power-Limiting	Cables	065 =		
	4 = 1/2"	G = 304 SS Welded	41 = BSX 9 W/m	n 230 V 51 = HPT 14 W,	/m 230 V	1 =		
	6 = 3/4"	H = 304 SS Seamless	43 = BSX 15 W/r	m 230 V 53 = HPT 28 W,	/m 230 V	1.5 =		
		J = Hastaloy C276	45 = BSX 25 W/r	m 230 V 55 = HPT 42 W,	/m 230 V			
		K = Alloy 825	47 = BSX 32 W/r	m 230 V 57 = HPT 57 W,	/m 230 V			
		M = FEP Teflon	61 = HTSX 9 W/	m 230 V				
		P = Polyethylene	63 = HTSX 18 W	//m 230 V				
		T = PTFE Teflon	65 = HTSX 27 W	//m 230 V				
		X = Special	67 = HTSX 37 W	//m 230 V				
			69 = HTSX 48 W	//m 230 V				
			71 = HTSX 64 W	//m 230 V				
			91 = VSX-HT 16	W/m 230 V				
Notes			93 = VSX-HT 33	W/m 230 V		1.16		

Typical Electrically Heat Traced Bundles

- Notes
- 1. Contact factory for options of tubing 25 mm (1") O.D. (not available in all materials).
- 2. Teflon is a trademark of E.I. du Pont de Nemours & Co., Inc. 3. Monel and Inconel are trademarks of Inco Alloys International, Inc.
- 4. Contact factory for design review.
- 5. Black ATP is standard, other jacket materials include TPU (Urethane)
- 6. Maximum number of tubes dependent on tube size.
- 7. Ensure distinction between metric and imperial tubing are noted.

A complete line of accessories for TubeTrace and ThermoTube are available.

TOT TREEZE FI	rotection or Maintain 65°C Heat Trace Exposure* Limited to 85°C	For Freeze Protection Heat Trace Exposu		
also available with an optional flu	g (All BSX includes braid & overjacket. Sta ioropolymer overjacket.)	HTSX Self-Regulating Heat Tracing (All HTSX cables inc 61 = HTSX 9 W/m 230 V 65 = HTSX 27		
41 = BSX 9 W/m 230 V 43 = BSX 15 W/m 230 V	45 = BSX 25 W/m 230 V	47 = BSX 32 W/m 230 V	63 = HTSX 18 W/m 230 V	67 = HTSX 37 \

** Standard TubeTrace and ThermoTube bundles have a maximum tube temperature rating of 204°C if outer jacket is to remain below 60°C in a max ambient of 27°C with no wind. Extra insulation (bundle option "XINS") maybe considered if tube temperatures approach HPT Power-limiting heating cable limits of 260°C, power off. For higher exposures (up to 588°C) consider TubeTrace HT or HTX bundles.

95 = VSX-HT 49 W/m 230 V

97 = VSX-HT 66 W/m 230 V



Product Reference Legend (Metric Units)

Bundle Type Process Tube(s) SI = Single Isolated Tube M or I **O.D**. **Process Tube Material** Light Steam Traced Metric or Imperial ess Tube(s) Number Metric A = 316LSSWeldedMI = Multiple Isolated Tubes Thickness (inches) of As = 316Ti SS Welded 6 = 6 mm Light Steam Traced Process Tube(s) **Tracer Tube** .030 B = B68 Copper 8 = 8 mm SP = Single Tube **O.D**. .032 (Copper Only) $C = PFA Teflon^2$ Heavy Steam Traced 10 = 10 mm Metric .035 MP= Multiple Tubes D = Monel³ 12 = 12 mm $6 = 6 \, \text{mm}$.040 (Plastic Only) Heavy Steam Traced E = Titanium Imperial 10 = 10 mm .047 (Plastic Only) F = 316LSSSeamless1 = 1/8''12 = 12 mm .049 Fs = 316Ti SS Seamless 2 = 1/4" Imperial .062 (Plastic Only) G = 304 SS Welded2 = 1/4" 3 = 3/8" .065 H = 304 SS Seamless3 = 3/8" 4 = 1/2" 1 mm J = Hastaloy C2764 = 1/2''1.5 mm⁷ K = Alloy 825M = FEP Teflon P = Polyethylene T = PTFE Teflon X = Special Bundle Type Tube O. SL = Single Tube Me 6 = 6 8 = 8 10 = 112 = 1 Impo 2 = 1 3 = 4 = Typical TubeTrace Type MP Typical ThermoTube Type SL Typical TubeTrace Type ME

Electrical Heat Trace Application

93 = VSX-HT 32 W/m 230 V

on or Maintain 121°C

osure* to 215°C

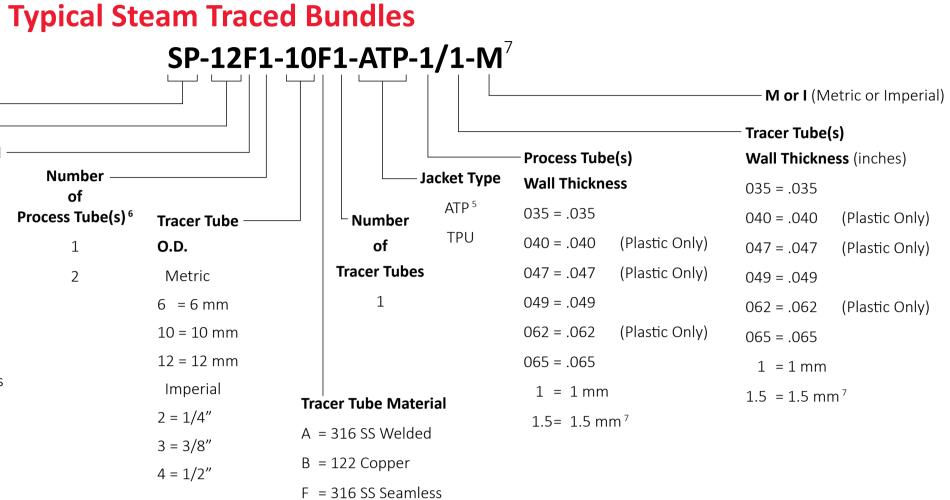
clude braid & overjacket BNOJ) 7 W/m 230 V 69 = HTSX 48 W/m 230 V 71 = HTSX 64 W/m 230 V 7 W/m 230 V

For Freeze Protection or Maintain 200°C

Heat Trace Exposure* to 250°C

VSX-HT Self-Regulating Heat Tracing (All VSX-HT cables include braid & overjacket BNOJ) 95 = VSX-HT 48 W/m 230 V 91 = VSX-HT 15 W/m 230 V 97 = VSX-HT 64 W/m 230 V

on or off.



ThermoTube[®] **Type SL Pre-Insulated Tubing** (For Steam Supply and Condensate Return-Not Heated) **SL-12B1-01-ATP-M**⁷

.D. ——				M or I (Met	ric or Imperial)
etric	Tube	Material		– Tube Wall	— Jacket Type ATP⁵
6 mm	A =	316L SS Welded	Number	Thickness (inches)	TPU
8 mm	As =	316Ti SS Welded	of	30 = .030	110
10 mm	B =	B68 Copper	Process Tubes	32 = .032 (Copper Onl	V)
12 mm	C =	PFA Teflon ²	1	35 = .035	,,
perial	D =	Monel ³		40 = .040 (Plastic Only	<i>'</i>)
	E =	Titanium		47 = .047 (Plastic Only	')
= 1/4"	F =	316L SS Seamless		49 = .049	
= 3/8"	Fs =	316Ti SS Seamless		62 = .062 (Plastic Only	·)
= 1/2″	G =	304 SS Welded		65 = .065	
	H =	304 SS Seamless		1 = 1 mm	
	J =	Hastaloy C276		1.5 = 1.5 mm ⁷	
	К =	Alloy 825			
	M =	FEP Teflon			
	P =	Polyethylene			
	T =	PTFE Teflon			
	X =	Special			

For Freeze Protection or Maintain 205°C

Exposure** to 260°C **HPT Power-Limiting Heat Tracing** (All HPT cables include BN braid & may include OJ) 57 = HPT 57 W/m 230 V 51 = HPT 14 W/m 230 V 55 = HPT 42 W/m 230 V53 = HPT 28 W/m 230 V

