TubeTrace® & ThermoTube



Process Tube(s)

Wall Thickness

028 = .028"

030 = 030"

049 = .049"

065 = .065"

032 = .032" (Copper Only)

040 = .040" (Plastic Only)

047 = .047" (Plastic Only)

062 = .062" (Plastic Only)

Product Reference Legend (Imperial Units)

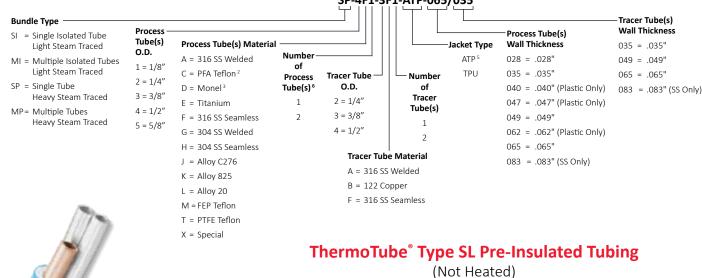
Typical Electrically Heat Traced Bundles

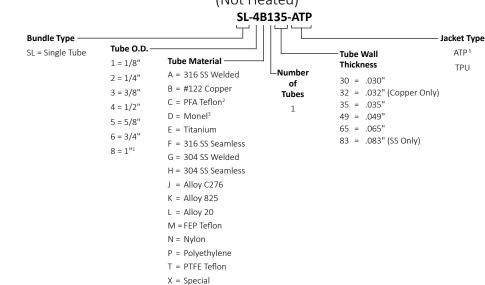
SE-4A1-62-7-ATP-035 **Process** SE = Single Tube Jacket Type Tube O.D. Heat Trace Option Process Tube Material MF = Multiple Tubes 1 = 1/8''Number 1 = BN (HPT Only) A = 316 SS Welded of Tubes 2 = 1/4" B = #122 Copper 3 = OJ (BSX Only) 3 = 3/8''C = PFA Teflon² 7 = OJ/Fluoropolymer 8 = Division 1 Approved 4 D = Monel³ 5 = 5/8" 6 = 3/4" F = 316 SS Seamless G = 304 SS Welded Heat Tracing Type (See Heat Trace Application Below). Contact Thermon for TubeTrace SE/ME H = 304 SS Seamless

instrument tubing bundles with alternative heat trace options such as parallel constant watt and series constant watt including mineral insulated heat tracing.

| | Self-Regulating | Self-Regulating Heat Trace————— | | |
|------|-------------------------|---------------------------------|-----------------------|--|
| 40 = | BSX 3 W/ft. 120 Vac | 60 = | HTSX 3 W/ft. 120 Vac | |
| 41 = | BSX 3 W/ft. 240 Vac | 61 = | HTSX 3 W/ft. 240 Vac | |
| 42 = | BSX 5 W/ft. 120 Vac | 62 = | HTSX 6 W/ft. 120 Vac | |
| 43 = | BSX 5 W/ft. 240 Vac | 63 = | HTSX 6 W/ft. 240 Vac | |
| 44 = | BSX 8 W/ft. 120 Vac | 64 = | HTSX 9 W/ft. 120 Vac | |
| 45 = | BSX 8 W/ft. 240 Vac | 65 = | HTSX 9 W/ft. 240 Vac | |
| 46 = | BSX 10 W/ft. 120 Vac | 66 = | HTSX 12 W/ft. 120 Vac | |
| 47 = | BSX 10 W/ft. 240 Vac | 67 = | HTSX 12 W/ft. 240 Vac | |
| 90 = | VSX-HT 5 W/ft. 120 Vac | 68 = | HTSX 15 W/ft. 120 Vac | |
| 91 = | VSX-HT 5 W/ft. 240 Vac | 69 = | HTSX 15 W/ft. 240 Vac | |
| 92 = | VSX-HT 10 W/ft. 120 Vac | 70 = | HTSX 20 W/ft. 120 Vac | |
| 93 = | VSX-HT 10 W/ft. 240 Vac | 71 = | HTSX 20 W/ft. 240 Vac | |
| 94 = | VSX-HT 15 W/ft. 120 Vac | | | |
| 95 = | VSX-HT 15 W/ft. 240 Vac | | | |
| 96 = | VSX-HT 20 W/ft. 120 Vac | | | |
| 97 = | VSX-HT 20 W/ft. 240 Vac | | | |
| | | | | |

Typical Steam Traced Bundles SP-4F1-3F1-ATP-065/035





1. Contact factory for options of 1" O.D. tubing (Not available in all materials.)

J = Alloy C276

K = Alloy 825

M = FEP Teflon

P = Polyethylene

T = PTFF Teflon

(i.e. passivated

polished, etc.)

X = Special

L = Alloy 20

N = Nvlon

- 2. Teflon is a trademark of E.I. du Pont de Nemours & Co., Inc.
- 3. Monel is a trademark of Inco Alloys International, Inc.
- 4. Contact factory for design review

40 = BSX 3 W/ft. 120 Vac

41 = BSX 3 W/ft. 240 Vac

42 = BSX 5 W/ft. 120 Vac

5. Black ATP is standard, other jacket materials include TPU (Urethane).

polyolefin, also available with an optional fluoropolymer overjacket.)

- 6. Maximum number of tubes dependent on tube size
- 7. Complete line of accessories for TubeTrace and ThermoTube are available

For Freeze Protection or Maintain 150°F (65°C) NO STEAM OUTS

BSX Self-Regulating Heat Tracing (All BSX includes braid & overjacket. Standard overjacket is

43 = BSX 5 W/ft. 240 Vac

44 = BSX 8 W/ft. 120 Vac

45 = BSX 8 W/ft. 240 Vac

Electrical Heat Trace Application

Typical TubeTrace Type MP

69 = HTSX 15 W/ft. 240 Vac

70 = HTSX 20 W/ft, 120 Vac

71 = HTSX 20 W/ft, 240 Vac

For Freeze Protection or Maintain 250°F (121°C)

Typical TubeTrace Type ME

Power-Limiting Heat Trace

50 = HPT 5 W/ft. 120 Vac

51 = HPT 5 W/ft. 240 Vac

52 = HPT 10 W/ft. 120 Vac

53 = HPT 10 W/ft, 240 Vac

54 = HPT 15 W/ft. 120 Vac

55 = HPT 15 W/ft, 240 Vac

56 = HPT 20 W/ft. 120 Vac

57 = HPT 20 W/ft. 240 Vac

66 = HTSX 12 W/ft. 120 Vac

67 = HTSX 12 W/ft. 240 Vac

HTSX Self-Regulating Heat Tracing (All HTSX includes braid & overjacket BNOJ)

For Freeze Protection or Maintain 392°F (200°C) Heat Trace Exposure* to 482°F (250°C)

VSX-HT Self-Regulating Heat Tracing (All VSX-HT includes braid & overjacket BNOJ)

Typical ThermoTube Type SL

90 = VSX-HT 5 W/ft. 120 Vac 93 = VSX-HT 10 W/ft. 240 Vac 96 = VSX-HT 20 W/ft. 120 Vac 91 = VSX-HT 5 W/ft. 240 Vac 94 = VSX-HT 15 W/ft. 120 Vac 97 = VSX-HT 20 W/ft. 240 Vac 92 = VSX-HT 10 W/ft. 120 Vac 95 = VSX-HT 15 W/ft. 240 Vac

For Freeze Protection or Maintain 400°F (205°C)

er-Limiting Heat Tracing (All HPT includes BN braid & may include OI

| The state of the s | | | | |
|--|---------------------------|---------------------------|--|--|
| 50 = HPT 5 W/ft. 120 Vac | 53 = HPT 10 W/ft. 240 Vac | 56 = HPT 20 W/ft. 120 Vac | | |
| 51 = HPT 5 W/ft. 240 Vac | 54 = HPT 15 W/ft. 120 Vac | 57 = HPT 20 W/ft. 240 Vac | | |
| 52 = HPT 10 W/ft. 120 Vac | 55 = HPT 15 W/ft. 240 Vac | | | |

* Exposure temperatures are generally with heat trace de-energized (off). Exceptions are for HTSX and VSX-HT self-regulating heat trace ratings which allow intermittent exposure, on or off.

46 = BSX 10 W/ft. 120 Vac

47 = BSX 10 W/ft, 240 Vac

** Standard TubeTrace and ThermoTube bundles have a maximum tube temperature rating of 400°F (204°C) if outer jacket is to remain below 140°F (60°C) in a max ambient of 80°F (27°C) with no wind. Extra insulation (bundle option "XINS") maybe considered if tube temperatures approach HPT Power-limiting limits of 500°F (260°C), power off. For higher exposures [up to 1100°F (588°C)]

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



Nieuwland Parc 314c 2952 DD Alblasserdam The Netherlands

60 = HTSX 3 W/ft. 120 Vac

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62 = HTSX 6 W/ft. 120 Vac

63 = HTSX 6 W/ft. 240 Vac

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