



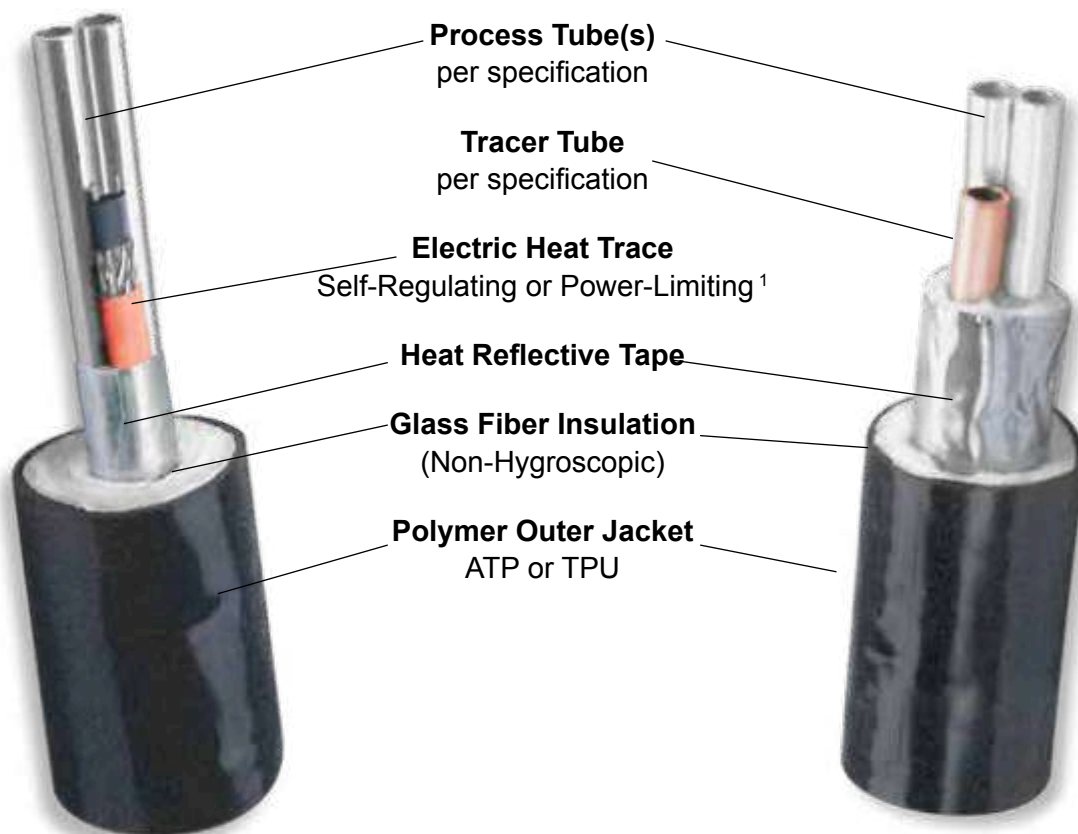
PRODUCT OVERVIEW

TubeTrace® Tubing Bundles

ELECTRICALLY & STEAM HEATED INSTRUMENT TUBING

Electrically Heated
(ME Shown)

Steam Heated
(MP Shown)



Process Tube(s)
per specification

Tracer Tube
per specification

Electric Heat Trace
Self-Regulating or Power-Limiting¹

Heat Reflective Tape

Glass Fiber Insulation
(Non-Hygroscopic)

Polymer Outer Jacket
ATP or TPU

Standard TubeTrace Bundles are designed so the outer jacket will not exceed 60°C when the process tube is 204°C² and the ambient is 27°C, no wind.

“Cut-to-Length” Coils . . .

Long coils of TubeTrace are available in a variety of configurations and tube sizes.³ With Thermon “cut-to-length” heat tracing, TubeTrace can be reeled off and cut to fit each specific application. Tube unions and heat trace splices can be completely eliminated. TubeTrace coils up to 152 m long minimize waste and ensure the lowest possible installed cost.

Straight Lengths . . .

For single short length applications, with large⁴ tube sizes or where specifications demand small amounts of high alloy tubing, straight lengths (stick tubing) are available. Even in straight lengths, TubeTrace bundles provide reliability and consistency compared to field traced and insulated systems.

Notes . . .

1. Other options such as constant watt or mineral insulated heat tracing are available, contact factory.
2. High temperature bundles for exposure to 593°C are available.
3. Imperial and metric size tubing are available.
4. Metallic tube sizes larger than 20 mm OD are available in straight lengths.

THERMON The Heat Tracing Specialists®

TC-E B.V. • Buitendijks 37 • 3356 LX Papendrecht • The Netherlands • Tel: +31 (0) 183-20 10 88 • E-mail: sales@tc-e.nl • www.tc-e.nl

TubeTrace® Tubing Bundles

Freeze Protection and Temperature Maintenance for the Process Industries

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

Typical Electrically Heat Traced Bundles

SE-4A1-62-7-ATP-035

Bundle Type				Jacket Type	Process Tube(s) Wall Thickness
SE = Single Tube	Process Tube Material ¹	Number of Tubes ⁶	Heat Trace Option	ATP ⁵	030 = .030"
ME = Multiple Tubes				TPU	032 = .032" (B68 Copper)
Process Tube O.D.	A = 316L SS Welded	1	3 = OJ (BSX Only)		035 = .035"
2 = 1/4"	As = 316Ti SS Welded	2	7 = NEC Ordinary/D2 Areas and CEC D1 & D2 Areas		040 = .040" (Plastic Only)
3 = 3/8"	B = B68 Copper	3	8 = NEC Division 1 Areas ⁴		047 = .047" (Plastic Only)
4 = 1/2"	C = PFA Teflon ²	4			049 = .049"
6 = 6 mm	D = Monel ³				062 = .062" (Plastic Only)
8 = 8 mm	E = Titanium				065 = .065" (316/316L SS Seamless Only)
10 = 10 mm	F = 316L SS Seamless				1 = 1 mm
12 = 12 mm	Fs = 316Ti SS Seamless				1.5 = 1.5 mm
	G = 304 SS Welded				
	H = 304 SS Seamless				
	J = Hastaloy C276				
	K = Alloy 825				
	M = FEP Teflon				
	P = Polyethylene				
	T = PTFE Teflon				
	X = Special				

Heat Tracing Type (See Below). Contact TC-E for TubeTrace SE/ME instrument tubing bundles with alternative heat trace options such as parallel constant watt and series constant watt including mineral insulated heat tracing.

Self-Regulating Heat Trace	
31 = VSX 5 w/ft. 240 Vac	Power-Limiting Heat Trace
33 = VSX 10 w/ft. 240 Vac	51 = HPT 5 w/ft. 240 Vac
35 = VSX 15 w/ft. 240 Vac	53 = HPT 10 w/ft. 240 Vac
37 = VSX 20 w/ft. 240 Vac	55 = HPT 15 w/ft. 240 Vac
41 = BSX 3 w/ft. 240 Vac	57 = HPT 20 w/ft. 240 Vac
43 = BSX 5 w/ft. 240 Vac	
45 = BSX 8 w/ft. 240 Vac	
47 = BSX 10 w/ft. 240 Vac	
61 = HTSX 3 w/ft. 240 Vac	
63 = HTSX 6 w/ft. 240 Vac	
65 = HTSX 9 w/ft. 240 Vac	
67 = HTSX 12 w/ft. 240 Vac	
69 = HTSX 15 w/ft. 240 Vac	
71 = HTSX 20 w/ft. 240 Vac	

Typical Steam Traced Bundles

SP-4F1-3F1-ATP-065/035

Bundle Type				Jacket Type	Process Tube(s) Wall Thickness		
SI = Single Isolated Tube	Process Tube(s) O.D.	Process Tube(s) Material	Number of Process Tube(s) ⁶	Tracer Tube O.D.	Number of Tracer Tube(s)	ATP ⁵	035 = .035"
MI = Multiple Isolated Tubes						TPU	049 = .049"
Light Steam Traced	1 = 1/8"	A = 316 SS Welded	1	2 = 1/4"	1		065 = .065"
MI = Multiple Isolated Tubes	2 = 1/4"	C = PFA Teflon ²	2	3 = 3/8"	2		083 = .083" (SS Only)
Light Steam Traced	3 = 3/8"	D = Monel ³		4 = 1/2"			
SP = Single Tube	4 = 1/2"	E = Titanium					
Heavy Steam Traced	5 = 5/8"	F = 316 SS Seamless					
MP = Multiple Tubes		G = 304 SS Welded					
Heavy Steam Traced		H = 304 SS Seamless					
		J = Alloy C276					
		K = Alloy 825					
		L = Alloy 20					
		M = FEP Teflon					
		T = TFE Teflon					
		X = Special					

Tracer Tube Material

A = 316 SS Welded	028 = .028"
B = 122 Copper	035 = .035"
F = 316 SS Seamless	040 = .040" (Plastic Only)
	047 = .047" (Plastic Only)
	049 = .049"
	062 = .062" (Plastic Only)
	065 = .065"
	083 = .083" (SS Only)

Notes . . .

- Contact factory for availability of 1" O.D. coils. (Not available in all materials.)
- Teflon is a trademark of E.I. du Pont de Nemours & Co., Inc.
- Monel is a trademark of Inco Alloys International, Inc.
- Contact factory for design review.
- Black ATP is standard, other jacket materials include TPU (Urethane).
- Maximum number of tubes dependent on tube size.
- Complete line of accessories for TubeTrace and ThermoTube are available.