PRODUCT SPECIFICATIONS

TubeTrace® Type SE/ME

ELECTRICALLY HEATED INSTRUMENT TUBING with **BSX**™ Self-Regulating Heat Tracing

APPLICATION

TubeTrace, with “cut-to-length” BSX self-regulating heat tracing, is designed to provide freeze protection or temperature maintenance from 40°F (5°C) to 150°F (65°C) for tubing where no “steam out” of the tubing is possible. BSX withstands temperature exposures of 185°F (85°C).

Self-regulating BSX heat tracing:

- Varies in response to the surrounding conditions along the entire length of a circuit.
- Lower risk of overheating the tube or product.
- Installed cost is lower because “cut-to-length” BSX makes end connections easy with minimal waste.
- BSX is approved for use in ordinary (non-classified) areas and hazardous (classified) areas.

RATINGS

BSX	Ratings
Available watt densities	3, 5, 8, 10 w/ft @ 50°F 10, 16, 26, 33 w/m @ 10°C
Supply voltages	110-120 or 208-277 Vac
Tube temperature range	40°F to 150°F (5°C to 65°C)
Max. continuous exposure temperature Power-off	185°F (85°C)
T-rating	T6 185°F (85°C)

CONSTRUCTION

1 Process tube(s)
2 BSX self-regulating electrical heat tracing
3 Heat reflective tape
4 Non-hygroscopic glass fiber insulation
5 Polymer outer jacket (ATP or TPU available)

PRODUCT FEATURES

- Self-regulating
- “Cut-to-length”
- Hazardous area approvals

For additional information on BSX and other Thermon heat tracing products and services, visit www.thermon.com.

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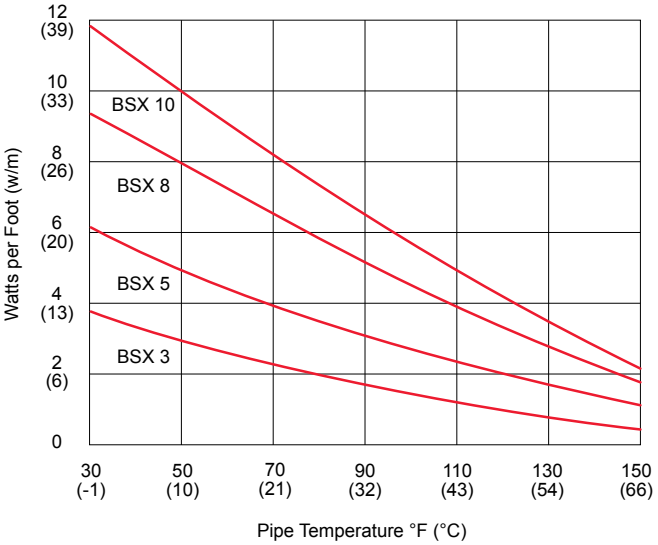
PRODUCT SPECIFICATIONS

TubeTrace® Type SE/ME

ELECTRICALLY HEATED INSTRUMENT TUBING
with **BSX**™ Self-Regulating Heat Tracing

POWER OUTPUT CURVES

The power outputs shown apply to cable installed on insulated metallic pipe (using the procedures outlined in IEEE Standard 515) at the service voltages stated below. For use on other service voltages, contact Thermon.



DESIGN TOOLS

Technical Design Information and CompuTrace® - IT computer design program for TubeTrace heated instrument tubing are available online at www.thermon.com.

TUBETRACE ACCESSORIES

Sealing the ends of pre-insulated tubing bundles ensures their efficient and reliable performance. A variety of termination kits and accessories are available and can be found on Form CLX0020.

ELECTRICAL HEAT TRACE ACCESSORIES

Thermon manufactures every type of electrical resistance heat tracing available in the world today. Power connection and termination kits (Form CLX0024) and a variety of controls are all available for heated instrument tubing applications.

HOW TO SPECIFY

SE-4A1-42-3-ATP-035

Bundle Type
SE = Single Tube
ME = Multiple Tubes

Process Tube O.D.
1 = 1/8"
2 = 1/4"
3 = 3/8"
4 = 1/2"
5 = 5/8"
6 = 3/4"
8 = 1" Stick [1]

Process Tube Material
A = 316 SS Welded
B = #122 Copper
C = PFA Teflon [2]
D = Monel [3]
E = Titanium
F = 316 SS Seamless
G = 304 SS Welded
H = 304 SS Seamless
J = Alloy C276
K = Alloy 825
L = Alloy 20
M = FEP Teflon
N = Nylon
P = Polyethylene
T = TFE Teflon
X = Special

Number of Tubes
1
2
3
4

Heat Trace Type
40 = BSX 3 w/ft. 120 Vac
41 = BSX 3 w/ft. 240 Vac
42 = BSX 5 w/ft. 120 Vac
43 = BSX 5 w/ft. 240 Vac
44 = BSX 8 w/ft. 120 Vac
45 = BSX 8 w/ft. 240 Vac
46 = BSX 10 w/ft. 120 Vac
47 = BSX 10 w/ft. 240 Vac

Heat Trace Option
3 = OJ/Polyolefin
7 = OJ/Fluoropolymer NEC Ordinary/D2 Areas and CEC D1 & D2 Areas
8 = NEC Division 1 Areas

Bundle Jacket
ATP [4]
TPU

Process Tube(s) Wall Thickness
030 = .030"
032 = .032" (Copper Only)
035 = .035"
040 = .040" (Plastic Only)
047 = .047" (Plastic Only)
049 = .049"
062 = .062" (Plastic Only)
065 = .065"
083 = .083" (SS Only)

Notes
1. Contact factory for availability of long length coils 1" O.D.
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. Black ATP is standard, other jacket materials are available.

CERTIFICATIONS/APPROVALS

FM Approved

FM Approvals
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups B, C and D
Class II, Division 2, Groups F and G
Class III, Divisions 1 and 2
Class I, Zones 1 and 2, AExe II

UL LISTED

Underwriters Laboratories Inc.
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups B, C and D
Class II, Division 2, Groups F and G
Class III, Divisions 1 and 2
Class I, Zones 1 and 2, AExe II (requires FOJ)

Canadian Standards Association
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups A, B, C and D
Class II, Division 2, Groups E, F and G
Class I, Division 1, Groups A, B, C and D
Class II, Division 1, Groups E, F and G
Ex e II