



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 5°C to 65°C for tubing where no “steam out” of the tubing is possible. BSX withstands temperature exposures of 85°C.

Self-regulating BSX heat tracing:

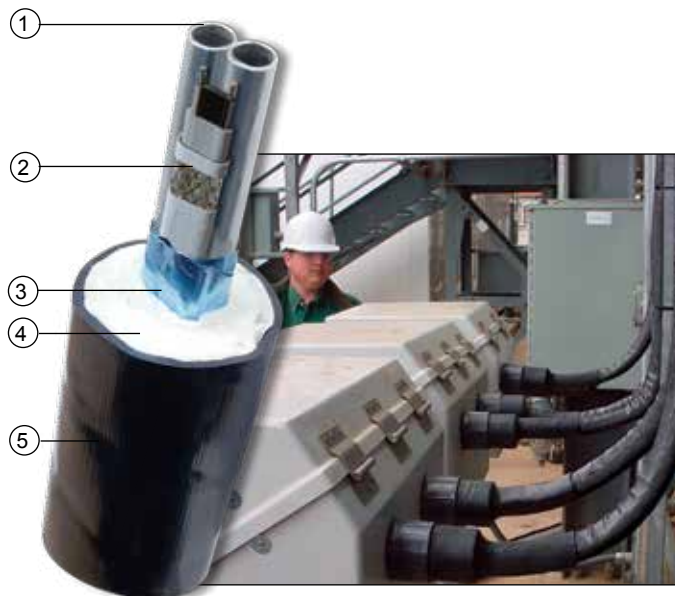
- Varies in response to the surrounding conditions along the entire length of a circuit.
- Lower risk of overheating the tube or product.
- Installed cost is lower because “cut-to-length” BSX makes end connections easy with minimal waste.
- BSX is approved for use in ordinary (non-classified) areas and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

RATINGS

BSX	Ratings
Available watt densities	9, 15, 25, 32 W/m @ 10°C
Supply voltages	230 Vac
Tube temperature range	5°C to 65°C
Max. continuous exposure temperature Power-off	85°C
T-rating ¹	
9, 15, 25 W/m	T6 85°C
32 W/m	T5 100°C
Based on stabilised design ²	T6 85°C

Note . . .

1. T-rating per internationally recognised testing agency guidelines.
2. Thermon heating cables are approved for the listed T-ratings using the stabilised design method. This enables the cable to operate in hazardous areas without limiting thermostats. The T-rating may be determined using CompuTrace® Electric Heat Tracing Design Software or contact Thermon for design assistance.



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.

THERMON The Heat Tracing Specialists®

ISO 9001
REGISTERED

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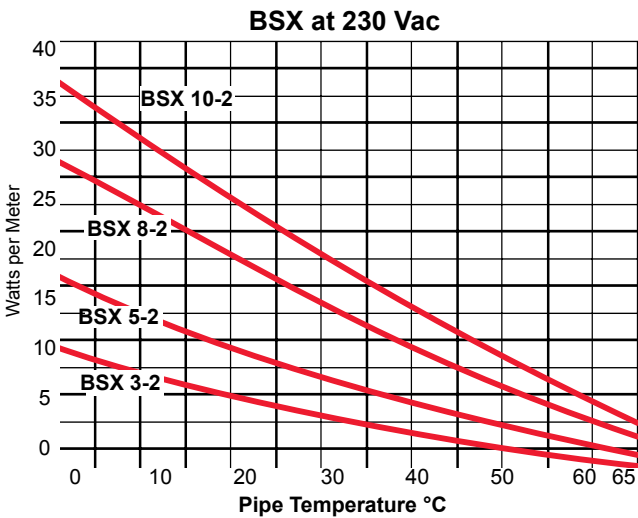
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POWER OUTPUT CURVES

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 CLX0020U.

ELECTRICAL HEAT TRACE ACCESSORIES

Thermon manufactures every type of electrical resistance heat tracing available in the world today. Power connection and termination kits (Form CLX0024U) and a variety of controls are all available for heated instrument tubing applications.

HOW TO SPECIFY

Bundle Type: SE = Single Tube, ME = Multiple Tubes

Process Tube O.D.: 2 = 1/4", 3 = 3/8", 4 = 1/2", 6 = 6 mm, 8 = 8 mm, 10 = 10 mm, 12 = 12 mm

Process Tube Material 1: A = 316L SS Welded, As = 316Ti SS Welded, B = B68 Copper, C = PFA Teflon 2, D = Monel 3, E = Titanium, F = 316L SS Seamless, Fs = 316Ti SS Seamless, G = 304 SS Welded, H = 304 SS Seamless, J = Hastaloy C276, K = Alloy 825, M = FEP Teflon, P = Polyethylene, T = PTFE Teflon, X = Special

Number of Tubes: 1, 2, 3, 4

Heat Trace Type: 41 = BSX 3 (9 W/m) @ 230Vac, 43 = BSX 5 (15 W/m) @ 230 Vac, 45 = BSX 8 (25 W/m) @ 230 Vac, 47 = BSX 10 (32 W/m) @ 230 Vac

Heat Trace Option: 3 = OJ/Polyolefin, 7 = FOJ/Fluoropolymer

Bundle Jacket: ATP 4, PE, TPU

M or I: Metric or Imperial Indication

Process Tube(s) Wall Thickness: 030 = .030", 032 = .032" (B68 Copper), 035 = .035", 040 = .040" (Plastic Only), 047 = .047" (Plastic Only), 049 = .049", 062 = .062" (Plastic Only), 065 = .065" (316/316L SS Seamless Only)

1 = 1 mm, 1.5 = 1.5 mm

Notes . . .

- Seamless tubing has a standard quality K3, other qualities are available on special request. Tubing meets the ASTM standards, tubing that meets DIN standards is available on special request.
- Teflon is a trademark of E.I. du Pont de Nemours & Co., Inc.
- Monel and Inconel are trademarks of Inco Alloys International, Inc.
- Black ATP is standard, other jacket materials are available.

CERTIFICATIONS/APPROVALS

Certificate FM13 ATEX 0052 in accordance with the EU ATEX Directive 94/9/EC

International Electrotechnical Commission IEC Certification Scheme for Explosive Atmospheres FMG 13.0020

BSX has additional hazardous area approvals including:
• DNV • Lloyd's • TIIS • CCE/CSIR • GOST-R
Contact Thermon for additional approvals and specific information.



FM Approvals
Ordinary and Hazardous (Classified) Locations



Underwriters Laboratories Inc.
Hazardous (Classified) Locations