

PRODUCT SPECIFICATIONS

TubeTrace® Type SE/ME

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

APPLICATION

TubeTrace, with "cut-to-length" VSX self-regulating heat tracing, is designed to provide freeze protection or temperature maintenance from 40°F (5°C) to 300°F (149°C) for tubing where high temperature exposure capability is possible. VSX withstands intermittent temperature exposures of 450°F (232°C).

Self-regulating VSX heat tracing:

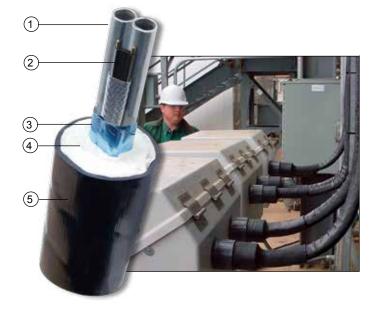
- Varies in response to the surrounding conditions along the entire length of a circuit.
- · Lower risk of overheating the tube or product.
- Installed cost is lower because "cut-to-length" VSX makes end connections easy with minimal waste.
- VSX is approved for use in ordinary (non-classified) areas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



vsx	Ratings
Available watt densities	5, 10, 15, 20 w/ft @ 50°F 16, 33, 49, 66 w/m @ 10°C
Supply voltages	110-120 or 208-277 Vac
Tube temperature range	40°F to 300°F (5°C to 149°C)
Max. exposure temperature ¹ Intermittent power-on Intermittent power-off Continuous power-off	450°F (232°C) 482°F (250°C) 400°F (204°C)
T-rating	T3 392°F (200°C)

Note

1. This reflects maximum exposure for heater. If bundle jacket is to remain below 140°F (60°C) in +80°F (27°C) ambient (in consideration of personnel burn risk) tube temperature must remain below 400°F (205°C). Alternative designs to keep jacket below 140°F (60°C) in higher ambients and/or with higher tube temperatures are available. Contact Thermon.



CONSTRUCTION

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

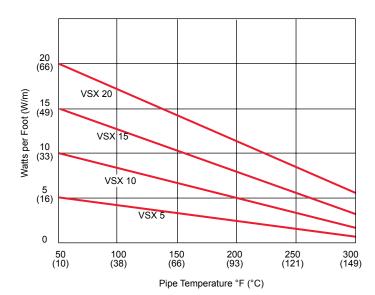
PRODUCT FEATURES

- · Self-regulating
- · "Cut-to-length"
- · Hazardous area approvals

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

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.

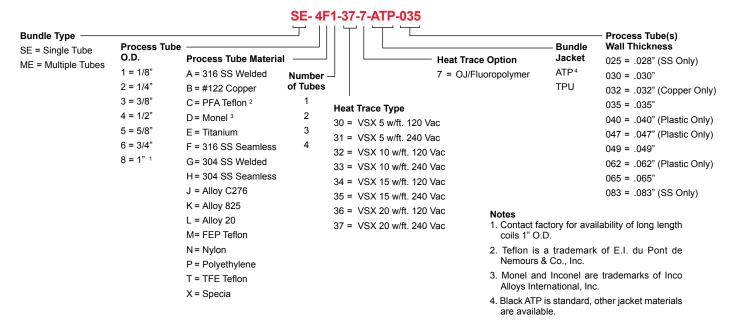
TUBETRACE ACCESSORIES

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



CERTIFICATIONS/APPROVALS



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, AEx e II



Underwriters Laboratories Inc.
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups A, B, C and D
Class II, Division 2, Groups F and G
Class III, Divisions 1 and 2
Class I, Zone 2, AEx e II



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