PRODUCT SPECIFICATIONS

TubeTrace® Type SE/ME
ELECTRICALLY HEATED INSTRUMENT TUBING
with HTSX™ Self-Regulating Heat Tracing

APPLICATION
TubeTrace, with "cut-to-length" HTSX self-regulating heat tracing, is designed to provide freeze protection or temperature maintenance from 40°F (5°C) to 302°F (150°C) for tubing where high temperature exposure capability is possible. HTSX withstands temperature exposures of 482°F (250°C).

Self-regulating HTSX 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" HTSX makes end connections easy with minimal waste.
• HTSX is approved for use in ordinary (non-classified) areas and hazardous (classified) areas.

RATINGS

<table>
<thead>
<tr>
<th>HTSX</th>
<th>Ratings</th>
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<tbody>
<tr>
<td>Available watt densities</td>
<td>3, 6, 9, 12, 15, 20 W/ft @ 50°F (10, 20, 30, 39, 49, 66 W/m @ 10°C)</td>
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<tr>
<td>Supply voltages</td>
<td>110-120 or 208-277 Vac</td>
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<tr>
<td>Tube temperature range</td>
<td>40°F to 302°F (5°C to 150°C)</td>
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<tr>
<td>Max. exposure temperature ¹</td>
<td>482°F (250°C)</td>
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<tr>
<td>Intermittent power-on or off</td>
<td>400°F (205°C)</td>
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<tr>
<td>Continuous power-off</td>
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<tr>
<td>T-rating</td>
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<tr>
<td>3,6,9,12, 15-2 W/ft</td>
<td>T3: 392°F (200°C) T2D: 419°F (215°C) T2C: 446°F (230°C)</td>
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<td>15-1 and 20-1 W/ft</td>
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<tr>
<td>20-2 W/ft</td>
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CONSTRUCTION
1 Process tube(s)
2 HTSX 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 HTSX and other Thermon heat tracing products and services, visit www.thermon.com.

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.
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.