



PRODUCT SPECIFICATIONS

TubeTrace® Type SE/ME

ELECTRICALLY HEATED INSTRUMENT TUBING with HPT™ Power-Limiting Heat Tracing

APPLICATION

TubeTrace, with “cut-to-length” HPT power-limiting heat tracing, is designed to provide freeze protection or temperature maintenance from 5°C to 177°C for tubing where high temperature exposure capability is possible. HPT withstands temperature exposures of 260°C.

The composite construction of the heating element and fiber substrate, plus an additional fiber cushion layer, make HPT an exceptionally durable heating cable. Durability has made TubeTrace with HPT the industry standard for high temperature emissions and process analyzer applications.

Power-Limiting HPT heat tracing:

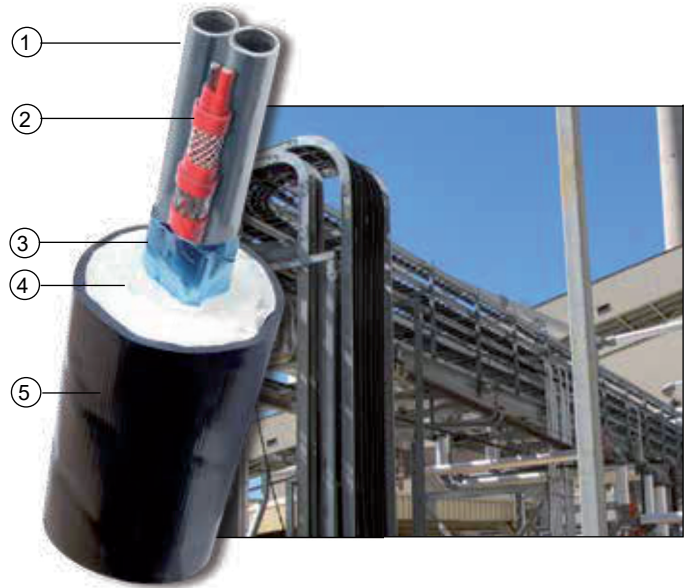
- Varies in response to the surrounding conditions along the entire length of a circuit.
- Lower risk of overheating the tube or product than with constant watt designs.
- HPT is approved for use in ordinary (non-classified) areas and hazardous (classified) areas.

RATINGS

HPT	Ratings
Available watt densities	16, 33, 49, 66 w/m @ 10°C
Supply voltages ¹	120 to 240 Vac Nominal
Tube temperature range	5°C to 204°C
Max. continuous exposure ² Power-off	260°C

Note

1. Higher voltages up to 480 Vac may be possible: Contact Thermon for design assistance.
2. This reflects maximum exposure for heater. If bundle jacket is to remain below 60°C in +27°C ambient (in consideration of personnel burn risk) tube temperature must remain below 205°C. Alternative designs to keep jacket below 60°C in higher ambients and/or with higher tube temperatures are available. Contact Thermon.



CONSTRUCTION

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

PRODUCT FEATURES

- Power-limiting
- Low start-up current
- “Cut-to-length”
- Hazardous area approvals

For additional information on HPT and other Thermon heat tracing products and services, visit

www.thermon.com.

THERMON The Heat Tracing Specialists®

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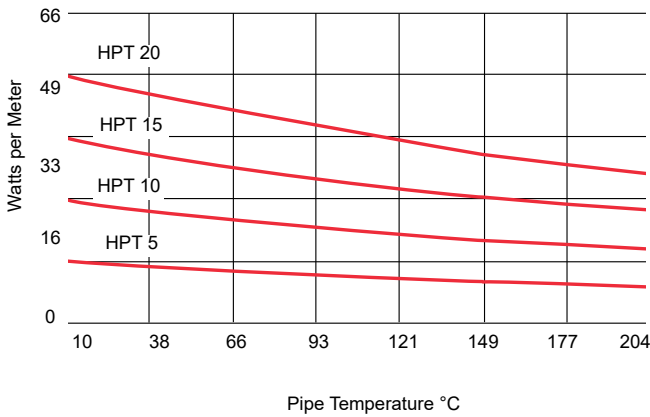
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POWER OUTPUT CURVES

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

SE-4F1-52-7-ATP-035

<p>Bundle Type</p> <p>SE = Single Tube ME = Multiple Tubes</p>	<p>Process Tube O.D.</p> <p>1 = 1/8" 2 = 1/4" 3 = 3/8" 4 = 1/2" 5 = 5/8" 6 = 3/4" 8 = 1"¹</p>	<p>Process Tube Material</p> <p>A = 316 SS Welded B = #122 Copper C = PFA Teflon² D = Monel³ 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</p>	<p>Number of Tubes</p> <p>1 2 3 4</p>	<p>Heat Trace Option</p> <p>7 = OJ/Fluoropolymer NEC Ordinary/D2 Areas and CEC D1 & D2 Areas 8 = NEC Division 1 Areas</p>	<p>Bundle Jacket</p> <p>ATP⁴ TPU</p>	<p>Process Tube(s) Wall Thickness</p> <p>028 = .028" (SS Only) 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)</p>
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Heat Trace Type

51 = HPT 5 w/ft. 240 Vac
53 = HPT 10 w/ft. 240 Vac
55 = HPT 15 w/ft. 240 Vac
57 = HPT 20 w/ft. 240 Vac

Notes . . .

- Contact factory for availability of long length coils 1" O.D.
- 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

FM Approvals
Ordinary and Hazardous (Classified) Locations

International Electrotechnical Commission
IEC Certification Scheme for Explosive Atmospheres
FMG 13.0020

Underwriters Laboratories Inc.
Hazardous (Classified) Locations

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