

ELECTRICALLY HEATED INSTRUMENT TUBING FOR FREEZE PROTECTION AND TEMPERATURE MAINTENANCE

TUBETRACE® TYPE SE/ME

Electrically Heated Instrument Tubing with HPT™ Power-Limiting Heat Tracing

APPLICATION

Freeze Protection or Process Temperature Maintenance Range: 5°C to 204°C TubeTrace, with “cut-to-length” HPT power-limiting heat tracing, is designed to provide freeze protection or temperature maintenance 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

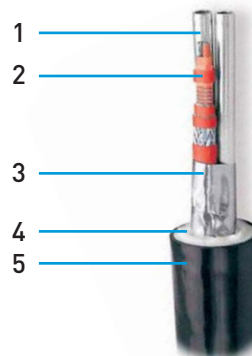
- Varies in response to the surrounding conditions along the entire length of a circuit.
- Lower risk of overheating the tube or product than with constant watt designs.
- HPT cables are certified for use in ordinary (nonclassified) areas and in potentially explosive atmospheres in accordance with the ATEX Directive and the IEC Ex Scheme

CONSTRUCTION

- 1 Process tube(s)
- 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)

HPT PRODUCT FEATURES

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



RATINGS/SPECIFICATIONS

HPT	Ratings
Available watt densities	14, 28, 42, 57 W/m @ 10°C
Supply voltage	230 Vac
Tube temperature range	5°C to 204°C
Max. continuous exposure* ¹ temperature Power-off	260°C
T-rating* ² Based on stabilised design* ³	T2 to T6

*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.

*²T-rating per internationally recognised testing agency guidelines.

*³Thermon 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