

TubeTrace® Type SEI/MEI - HTX2

Electrically Heat Traced (EHT) Tubing with
EHT Isolated from Intermittent Extremes (HTX2)

Product Specifications

Application . . .

**Freeze protection 40°F (5°C) of steam lines.
(Intermittent exposure to 593°C)**

TubeTrace HTX2 is a pre-engineered electric traced tube bundle for steam sample lines and impulse lines to pressure transmitters. TubeTrace HTX2 will provide water freeze protection in ambient conditions down to -34°C with 40 kph wind. HTX2 is suitable for superheat steam service temperatures up to 593°C for a duration of 2 minutes per cycle.

In the past, tubing subject to high temperature exposure was heat traced with series resistance mineral insulated (MI) heat trace. MI heaters are custom made to fit each application, so long lead times are often required. TubeTrace HTX2 solves this with Thermon parallel resistance HPT heat trace isolated from direct contact with high temperature tubing.

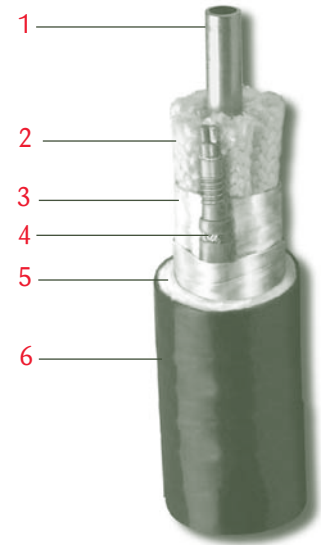
TubeTrace HTX2 bundles are suitable for continuous exposure to 399°C and/or intermittent superheat steam service temperatures to 593°C even when power is applied to the heat trace during ambient conditions of 5°C.

Ratings/Specifications . . .

Watt density	16 W/m @ 10°C
Supply voltages ¹	230 Vac Nominal
Maintain temperature	5°C (Freeze protection)
Minimum design ambient	-34°C
Max. continuous exposure temp.	399°C
Intermittent service temperature	593°C
Minimum bend radius	SEI - HTX2: 305 mm MEI - HTX2: 406 mm

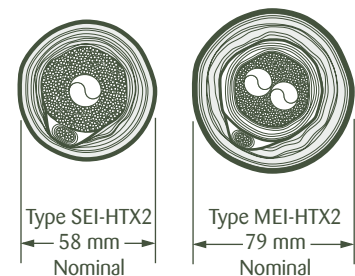
Note . . .

1. Higher voltages up to 480 Vac may be possible: contact Thermon for design assistance.



Construction . . .

- 1 Process Tube(s)
- 2 High Temperature Woven Glass Fiber Thermal Insulation
- 3 Thermal Diffusion Foil
- 4 HPT Heat Trace
- 5 Non-hygroscopic Glass Fiber Insulation
- 6 Polymer Outer Jacket (ATP or TPU)



Product Features . . .

- "Touch Safe" Jackets Protect Personnel
- "Cut-to-Length" for Faster Installation
- Rated for Intermittent Exposure Temperatures of 593°C for 2 minutes/2.5 hr cycle
- Designed for Ambient Sensing Control at 5°C
- Freeze Protect in Ambient of -34°C



THERMON . . . The Heat Tracing Specialists®

www.thermon.com

European Headquarters
Boezemweg 25 • PO Box 205
2640 AE Pijnacker • The Netherlands
Phone: +31 (0) 15-36 15 370

Corporate Headquarters
100 Thermon Dr. • PO Box 609
San Marcos, TX 78667-0609 • USA
Phone: +1 512-396-5801

For the Thermon office nearest you
visit us at . . .
www.thermon.com

ISO 9001
REGISTERED

TubeTrace® Type SEI/MEI - HTX2

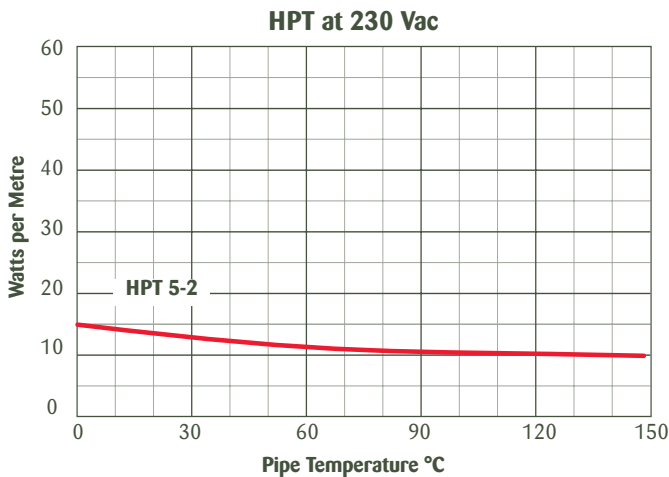
Electrically Heat Traced (EHT) Tubing with
EHT Isolated from Intermittent Extremes (HTX2)

Product Specifications

Power Output Curves . . .

The power outputs shown apply to HPT 5 installed on insulated metallic pipe (using the procedures outlined in IEEE Standard 515-2004). Performance will be lower as HPT sandwiched between layers of thermal insulation will reduce its power output.

Catalog Number 230 Vac	Zone Length cm	Power Output at 10°C W/m
HPT 5-2	76	14



Circuit Breaker Sizing . . .

Maximum circuit lengths for various circuit breaker amperages are shown below. Breaker sizing should be based on the National Electrical Code, Canadian Electrical Code or any other applicable code. For information on design and performance on other voltages, contact Thermon.

The National Electrical Code and Canadian Electrical Code require ground-fault protection of equipment for electric heat tracing. Check local codes for specific ground-fault protection requirements.

Catalog Number	Start-Up Temperature °C	Max. Circuit Length* vs. Breaker Size Metres			
		16A	25A	32A	40A
HPT 5-2	10	257	281	281	281
	0	248	281	281	281
	-20	230	281	281	281

* Maximum circuit lengths shown are based on an instantaneous trip current characteristic per IEC 60898 at the referenced start-up temperature and a 10°C maintenance temperature. For maximum circuit lengths with other trip current characteristics contact Thermon.

How to Specify . . .

SEI-4F1-51-1-ATP-065-HTX2

<p>Bundle Type SEI = Single Tube MEI = Multiple Tubes</p>	<p>Process Tube O.D. 2 = 1/4" 3 = 3/8" 4 = 1/2"</p>	<p>Process Tube Material A = 316 SS Welded D = Monel¹ E = Titanium F = 316 SS Seamless G = 304 SS Welded H = 304 SS Seamless J = Alloy C276 K = Alloy 825 L = Alloy 20 X = Special</p>	<p>Number of Tubes 1 2</p>	<p>Heat Trace Type 51 = HPT 5 w/ft. 230 Vac</p>	<p>Heat Trace Option 1 = BN Nickel Plated Braid 7 = OJ/Fluoropolymer 8 = Division 1 Approval</p>	<p>Bundle Jacket ATP² TPU</p>	<p>High Temperature HTX2 = Intermittent Exposure to 593°C</p> <p>Process Tube(s) Wall Thickness 035 = .035" 049 = .049" 065 = .065" 083 = .083" (Seamless Only)</p>
--	--	--	---	--	---	---	---

Notes . . .

1. Monel is a trademark of Inco Alloys International, Inc.
2. Black ATP is standard. Other jacket materials are available.

Heat Trace Certifications/Approvals . . .

CENELEC European Organisation for Electrotechnical Standardisation
Hazardous (Classified) Locations

CE **Ex** II 2 G/D EEx e T2 to T6 DEMKO 02 ATEX 012337X

IEC Ex International Electrotechnical Commission
IEC Certification Scheme for Explosive Atmospheres
UL 06.0006

FM Approved Factory Mutual Research
Hazardous (Classified) Locations

UL LISTED Underwriters Laboratories Inc.
Hazardous (Classified) Locations

HPT has additional hazardous area approvals including:
• DNV • Lloyd's • JIS • CCE/CMRS
Contact Thermon for additional approvals and specific information.

