



PRODUCT SPECIFICATIONS

TubeTrace® Type SEI/MEI - HTX2

WITH ELECTRICAL HEAT TRACE

Isolated from High Temperature Extremes

APPLICATION

Freeze protection 40°F (5°C) of steam lines. Intermittent exposure to 1100°F (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 -30°F (-34°C) with 25 mph (40 kph) wind. HTX2 is suitable for superheat steam service temperatures up to 1100°F (593°C) for a duration of 2 minutes per cycle.

In the past, the only option for tubing subject to high temperature exposure was heat traced with series resistance mineral insulated (MIQ) heat trace. MIQ heaters are custom made to fit each application, so long lead times and specific field measurements 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 750°F (399°C) and/or intermittent superheat steam service temperatures to 1100°F (593°C) even when power is applied to the heat trace during ambient conditions of 40°F (5°C).

RATINGS

Watt density	5 w/ft @ 50°F (16 W/m @ 10°C)
Supply voltages ¹	120 or 240 Vac Nominal
Maintain temperature	40°F (5°C) (Freeze protection)
Minimum design ambient	-30°F (-34°C)
Max. continuous exposure temp.	750°F (399°C)
Intermittent service temperature	1100°F (593°C)
Minimum bend radius	SEI - HTX2: 12" (305 mm) MEI - HTX2: 16" (406 mm)

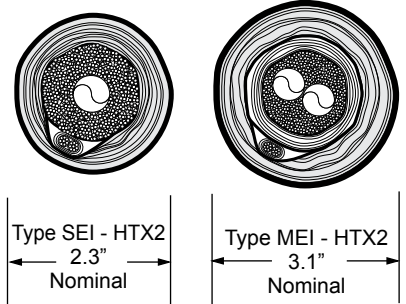
PRODUCT FEATURES

- "Touch Safe" jackets protect personnel
- "Cut-to-length" for faster installation
- Rated for intermittent exposure temperatures of 1100°F (593°C) for 2 minutes/2.5 hr cycle
- Designed for ambient sensing control at +40°F (5°C)
- Freeze protect in ambient of -30°F (-34°C)



CONSTRUCTION

- 1 Process tube(s)
- 2 High temperature woven glass fiber thermal insulation
- 3 HPT heat trace
- 4 Thermal diffusion foil
- 5 Non-hygroscopic glass fiber insulation
- 6 Polymer outer jacket (ATP or TPU)



BASIC ACCESSORIES

END SEAL KIT

FAK-7HTS-HTX2-1

- Up to 3.0" o.d.
- Single tube, single tracer

FAK-7HTS-HT/HTX-2

- Up to 3.50" o.d.
- Dual tube, single tracer



Note

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

THERMON The Heat Tracing Specialists®

ISO 9001
REGISTERED

Corporate Headquarters: 100 Thermon Dr • PO Box 609 San Marcos, • TX 78667-0609 • Phone: 512-396-5801 • 1-800-820-4328
For the Thermon office nearest you visit us at . . . www.thermon.com

Form CLX0019-0215 • © Thermon Manufacturing Co. • Printed in U.S.A. • Information subject to change.



PRODUCT SPECIFICATIONS

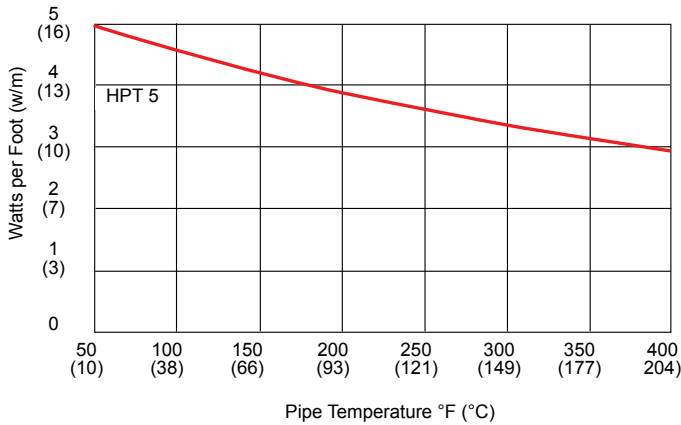
TubeTrace® Type SEI/MEI - HTX2

WITH ELECTRICAL HEAT TRACE
Isolated from High Temperature Extremes

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.

Catalog Number	Zone Length in (cm)	Catalog Number	Zone Length in (cm)	Power Output at 50°F (10°C)
HPT 5-1	24 (61)	HPT 5-2	30 (76)	5 (16)



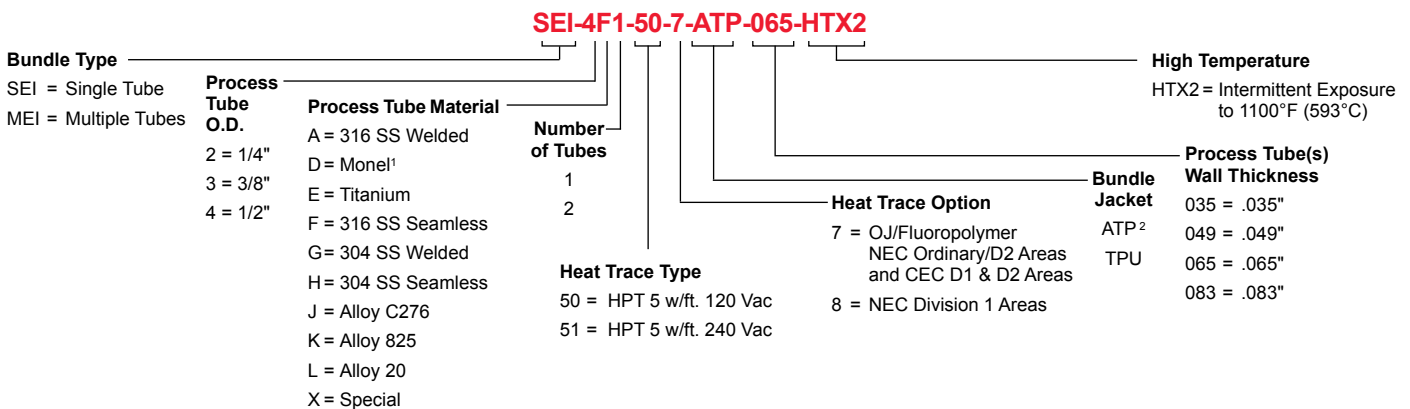
CIRCUIT BREAKER SIZING

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. The National Electrical Code and Canadian Electrical Code require ground-fault protection of equipment for each branch circuit supplying electric heating equipment. Check local codes for ground-fault protection requirements.

120 Vac Service Voltage		Max. Circuit Length vs. Breaker Size ft (m)			
Catalog Number	Start-Up Temperature °F (°C)	20A	30A	40A	50A
HPT 5-1	50 (10)	320 (98)	425(130)	--	--
	0 (-18)	290 (88)	425(130)	--	--
	-20 (-29)	275 (84)	425(130)	--	--
	-40 (-40)	265 (81)	415(127)	425(130)	--

240 Vac Service Voltage		Max. Circuit Length vs. Breaker Size ft (m)			
Catalog Number	Start-Up Temperature °F (°C)	20A	30A	40A	50A
HPT 5-2	50 (10)	640 (195)	850 (259)	--	--
	0 (-18)	580 (177)	850 (259)	--	--
	-20 (-29)	555 (169)	765 (233)	850 (259)	--
	-40 (-40)	535 (163)	765 (233)	765 (233)	850 (259)

HOW TO SPECIFY



Notes

1. Monel is a trademark of Inco Alloys International, Inc.
2. Black ATP is standard.

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
Division 1 Locations
Requires Heater Cable Option 8:
Class I, Division 1, Groups B, C and D
Class II, Division 1, Groups E, F and G



Underwriters Laboratories Inc.
Ordinary Locations
Hazardous (Classified) Locations
Class I, Division 2, Groups B, C and D
Class II, Division 2, Groups E, F and G*
Class III, Divisions 1 and 2
Class I, Zone 1, AExe II
Class I, Zone 2, AExe II
Division 1 Locations
Requires Heater Cable Option 8:
Class I, Division 1, Groups B, C and D
Class II, Division 1, Groups E, F and G



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

* CL. II, Div. 2 requires Thermon design review.