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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

aAHTb Electrical Heat Trace Cable Systems.

a = Output power code (equal to W/m or W/ft): 15(15 or 5), 30(30 or 10), 50(50 or 16), 100(100 or 33), 150(150 or 50) or 200(200 or 66).

b = Voltage: 1 (100-120 Vac) or 2 (100-240 Vac).

Special Conditions of Use:

1. Heat Trace Ltd. is to provide design parameters for an engineered AHT cable system for the specific installation application which will include the Maximum Sheath Temperature (T code rating).
2. The AHT Electrical Heat Trace Cable Systems have a Maximum Maintain Temperature rating of 644°F (340°C), a Maximum Exposure Temperature (Power Off) of 671°F (355°C), and a Minimum Installation Temperature of -40°C.
3. The AHT systems are designed for use with BPS3 and HPS2 power connection kits and BES2 and HES2 end termination kits.
4. The AHT systems are designed for use with the DESTU-PK power connection kit, or the DESTU with DSx (x=1,2,3,4 or5) which requires the use of an NRTL Approved enclosure that is appropriately rated for the hazardous (classified) location area use of the heating cable, including an appropriate environmental rating, of Type 4.

aFSMf-Xg, bFSLef-hg, cFSRf-hg, and dFSSf-hF Freezstop Electrical Heat Trace Cable Systems.

a = Output power code (equal to rating in W/m@5°C or W/ft@40°F): 11(11 or 3) or 17(17 or 5).

b = Output power code (equal to rating in W/m@5°C or W/ft@40°F): 12(12 or 3), 17(17 or 5) or 23(23 or 7).

c = Output power code (equal to rating in W/m@10°C or W/ft@50°F): 10(10 or 3), 17(17 or 5), 25(25 or 8) or 31(31 or 10).

d = Output power code (equal to rating in W/m@10°C or W/ft@50°F): 15(15 or 5), 30(30 or 8), 40(40 or 10) or 55(55 or 15).

f = Voltage: 1 (100-120 V ac) or 2 (200-240 V ac).

g = Outer jacket material option: T (TPE) or F (PVDF or MFA).

h = Overbraid material option: C (tinned copper) or X (60/40 mixed).

Special Conditions of Use:

1. Maximum sheath temperature (T Code) rating is T6 for FSM, FSLe and FSR, T2D for 15FSS, T2B for 30FSS, 40FSS and 55FSS.

2.		FSM	FSLe	FSR	FSS
	Maximum Maintain Temperature.	65°C	65°C	65°C	120°C
	Maximum Exposure Temperature (Power Off).	85°C	85°C	200°C	
	Minimum Installation Temperature.	-40°C	-40°C	-40°C	-40°C



3. *The FSM, FSLe, and FSS systems are designed for use with the BPS1 and HPS2 power connection kits. The FSR system is designed for use with the BPS2 and HPS2 power connection kits. The FSM system is designed for use with the BES1 and HES2 end termination kits. The FSLe and FSS systems are designed for use with the BES1, BES2 and HES2 termination kits. The FSR system is designed for use with the BES2, BES3 and HES2 termination kits.*
4. *The FSM, FSLe, FSS and FSR systems are designed for use with the DESTU-PK power connection kits, or the DESTU with DSx (x=1,2,3,4 or5) power connection kit which requires the use of an NRTL Approved enclosure that is appropriately rated for the hazardous (classified) location area use of the heating cable, including an appropriate environmental rating, of Type 4.*

Equipment Ratings:

Approved for:

Heat Trace Ltd.
Cromwell Road, Bredbury,
Stockport, Cheshire, SK6 2RF
United Kingdom

This certifies that the equipment described has been found to comply with the following Factory Mutual Research Approval Standards and other documents:

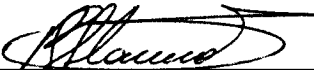
Class 3600	1998
Class 3611	1999
Class 3810	1989
Supplement	1995
ANSI/NEMA	250
ANSI/IEEE 515	1989

Original Approval Job Identification: 3009080 Approval Granted: May 16, 2001

Subsequent Revision Reports / Date Approval Amended

3011436	October 12, 2001
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Factory Mutual Research Corporation



Paris Stavrianidis
Assistant Vice President
Approvals Division

October 12, 2001
Date

