



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312312000117

Applicant Heat Trace Asia Ltd
Address B410, No.189 Xijunhuan Road, Minhang, Shanghai, China
Manufacturer Heat Trace Limited
Address Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, United Kingdom
Production Factory Heat Trace Limited
Production Address Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, United Kingdom
Product Powerheat AHT Heating Cables
Model/Type **AHT**
Ex marking Ex eb IIC T6...T1 Gb
Reference Standards GB/T 3836.1-2021, GB/T 3836.3-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (3 pages)

Initial issue date: 2021-01-05

Issued date: 2022-10-26

Valid to: 2026-01-04

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:

穆大玉



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co., Ltd.



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Product information:

1. This certificate covers the following models:

- **AHT**

Nomenclature:

**	AHT	*	-	*
a	b	c		d

a: Normal output power

b: Type AHT

c: Voltage

1: up to 199V AC

2: 200~277V AC

d: Optional outer jacket

F: Fluoropolymer Jacket

T: Thermoplastic Jacket

The minimum installation temperature of the heating cables is -40°C. The maximum surface temperature is dependent on the maximum permissible workpiece temperature as shown in the following tables:

Table A		Maximum Permissible Workpiece Temperature (°C)					
Maximum surface temperature		T6	T5	T4	T3	T2	T1
Product	Nominal						

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type	output (W/m)						
AHT	10	34	50	100	188	290	340
	15	-	36	71	160	289	350
	30	-	11	28	100	246	323
	50	-	-	-	39	178	276
	100	-	-	-	-	48	140
	150	-	-	-	-	-	36
	200	-	-	-	-	-	7

Table B		Maximum Permissible Workpiece Temperature (°C)					
Maximum surface temperature		T6	T5	T4	T3	T2	T1
Product type	Nominal output (W/m)						
AHT	10	40	60	110	190	290	340
	50	-	-	-	-	206	295
	100	-	-	-	-	82	176
	150	-	-	-	-	-	38

Table A: Stabilised design system or Protective System.

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Table B: Protective system with Heat Trace 'Powermatch' power controller (Where a temperature controller is used to limit the maximum surface temperature).

The heating cables meet the requirements for degree of protection IP67.

The cables are rated at up to 200 W/m on a supply voltage up to 277 V.

Ex marking: Ex eb IIC T6...T1 Gb

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Withstand temp. range: -40°C to +425°C.

- The heating cables are cut to length to form a unit that is terminated at each end with a seal kit. The equipment is designed to be connected to a supply by means of suitable certified cable entries and junction boxes in accordance with the manufacturer's installation instructions. Additional earthing of the outer jacket may also be achieved by the use of a P clip arrangement.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2009C517, CQST2009C517/01

- Factory inspection report: CN2020Q010179

4. Certificate change information:

- 1st change on October 26, 2022: Updated the standards for certification.

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