



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312312000165

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 Resistance Round Longline
Model/Type HTS1FAR-A***
Ex marking Ex eb IIC T1...T6 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 CNEX-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: 2022-04-29

Issued date: 2022-10-22

Valid to: 2027-04-28

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:



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



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产品
PRODUCT
CNAS C208-P

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Product information:

1. This certificate covers the following models:

- HTS1FAR-A***

Nomenclature:

HTS	1FAR	-	A	*	*	*
1)	2)		3)	4)	5)	6)

1) Heating Cable Type Designation

2) Round Conductor

3) Aluminium Sheath

4) Optional outer jacket:

F = Fluoropolymer

S = Silicone rubber

T = Thermoplastic

5) Conductor cross sectional area: the relationship among the conductor cross area, conductor diameter and conductor resistance are shown as Table 1

Table 1

Product Type	Conductor Cross Sectional Area (mm ²)	Conductor Diameter (mm)	Conductor Resistance (OHM/KM @ 20°C)
HTS1 FAR-A 3.1	3.1	2.0	8.784 (+/- 5%)
HTS1 FAR-A 7.1	7.1	3.0	4.014(+/-5%)
HTS1 FAR-A 12.6	12.6	4.0	2.214(+/-5%)
HTS1 FAR-A 19.6	19.6	5.0	1.514(+/-5%)

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穆大玉



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HTS1 FAR-A 28.3	28.3	6.0	1.010(+/-5%)
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- 6) Rated voltage:
1 Phase Up to 1500V
3 Phase Up to 2500V

The cables are permitted for a maximum temperature of 230°C and supplied in line with customer's specific application. They are to be installed directly on to pipeline under insulation in accordance with the manufacturer's installation instructions.

The cables should be supplied / installed with consideration to the maximum pipe/workpiece temperatures according Table 2:

Table 2

Product Type	Nominal Output (W/m)	Maximum Permissible Workpiece Temperatures (°C)					
		T6 T85°C	T5 T100°C	T4 T135°C	T3 T200°C	T2 T300°C	T1 T450°C
HTS1FA R-A3.1	10	34	51	98	190	225	225
	20		12	49	166	215	215
	30			6	110	164	164
	40				64	129	129
HTS1FA R-A7.1	10	42	59	101	185	226	226
	20	5	20	60	154	199	199
	30			26	115	167	167
	40				79	139	139
HTS1FA R-A 12.6	10	39	59	106	186	226	226
	20		3	67	171	204	204
	30			20	133	185	185
	40				101	160	160
	50				64	131	131
HTS1FA R-A 19.6	10	41	61	107	187	226	226
	20		9	71	171	205	205
	30			26	137	188	188
	40				106	164	164

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	50				72	137	137
HTS1FA R-A 28.3	10	46	65	110	188	226	226
	20		24	79	173	207	207
	30			43	146	196	196
	40			6	120	173	173
	50				92	150	150

The Longline Round (LLR) has the following temperature limitations:

	Without LLRS/HLRS	With LLRS/HLRS fitted
Maximum withstand temperature (Tp)	230°C	90°C
Minimum ambient temperature	-60°C	-40°C
Minimum installation temperature:	-40°C	-40°C

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

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

2. Specific conditions of safety use:

- The Longline Round (LLR) can be spliced or terminated with the use of the certified Ex LLRS or HLRS splice; the user and/or installer shall install and commission the equipment taking into account any restrictions or specific conditions of use that are applicable to the certified devices/parts that are fitted to the equipment.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2112C183, CQST2112C183/01

- Factory inspection report: CN2020Q010179

4. Certificate change information:

- 1st change on October 22, 2022: Updated the standards for certification.

Issued date: 2022-10-22

Director:

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