



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312312000167

Applicant Heat Trace Asia Ltd
Address B410, No.189 Xinjunhuan 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 Mineral insulated heating cable
Model/Type MSS-****
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 CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (6 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.



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China
Tel: 0377-63239734

P.C.: 473008
Email: ccc@cn-ex.com

CN 0001424



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2022312312000167

Page 1 of 6

Product information:

1. This certificate covers the following models:

- MSS-****

Nomenclature:

MSS	SS	-	*	*	*	*
1)	2)		3)	4)	5)	6)

- 1) MI Heating Cable
- 2) Sheath Material :
SS=Stainless steel sheathed
- 3) Some Conductors
1=1 Core
2=2 Core
- 4) Voltage Grade
3=300V, 6=600V
- 5) Conductor Material (product dependent)
C=Copper
K=Copper base alloy 6J40
N=Nickel chromium Cr20Ni80
- 6) Ohms/km (20°C)

Electrical data:

Single core: 600V

Model		Core Number	Core Material	Cable Outside Diameter (mm)	Resistance (Ω/Km @ 20°C)
MSS	16C2.1	1	C (Copper)	6.8	2.1

Issued date: 2022-10-22

Director:

穆大玉



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





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2022312312000167

Page 2 of 6

MSS	16C3.4	1	C (Copper)	5.9	3.4
MSS	16C5.3	1	C (Copper)	5.3	5.3
MSS	16C8.5	1	C (Copper)	4.8	8.5
MSS	16C13	1	C (Copper)	4.3	13
MSS	16C21	1	C (Copper)	4.0	21
MSS	16K40	1	K (Copper Alloy)	5.8	40
MSS	16K50	1	K (Copper Alloy)	5.4	50
MSS	16K60	1	K (Copper Alloy)	5.2	60
MSS	16K80	1	K (Copper Alloy)	4.8	80
MSS	16K100	1	K (Copper Alloy)	4.7	100
MSS	16K120	1	K (Copper Alloy)	4.5	120
MSS	16N160	1	N (Nickel-Chr)	6.5	160
MSS	16N200	1	N (Nickel-Chr)	5.9	200
MSS	16N250	1	N (Nickel-Chr)	5.3	250
MSS	16N400	1	N (Nickel-Chr)	4.7	400
MSS	16N500	1	N (Nickel-Chr)	4.5	500
MSS	16N630	1	N (Nickel-Chr)	4.3	630
MSS	16N1000	1	N (Nickel-Chr)	3.9	1,000
MSS	16N1600	1	N (Nickel-Chr)	3.6	1,600
MSS	16N2500	1	N (Nickel-Chr)	3.4	2,500
MSS	16N2800	1	N (Nickel-Chr)	3.4	2,800
MSS	16N330	1	N (Nickel-Chr)	3.4	3,300
MSS	16N4000	1	N (Nickel-Chr)	3.2	4,000
MSS	16N5200	1	N (Nickel-Chr)	3.2	5,200
MSS	16N6300	1	N (Nickel-Chr)	3.2	6,300

Issued date: 2022-10-22

Director:

穆大玉



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



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
Tel: 0377-63239734 Email: ccc@cn-ex.com



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2022312312000167

Page 3 of 6

MSS	16N10000	1	N (Nickel-Chr)	3.2	10,000
-----	----------	---	----------------	-----	--------

Dual core: 600V

Model	Core Number	Core Material	Cable Outside Diameter (mm)	Resistance (Ω /Km @ 20°C)
MSS 26C8.4	2	C (Copper)	9.8	8.4
MSS 26C13.4	2	C (Copper)	8.7	13.4
MSS 26C21	2	C (Copper)	7.9	21
MSS 26C34	2	C (Copper)	7.3	34
MSS 26C54	2	C (Copper)	6.3	54
MSS 26C85	2	C (Copper)	5.6	85
MSS 26C130	2	C (Copper)	5.3	130
MSS 26K180	2	K (Copper Alloy)	7.9	180
MSS 26K260	2	K (Copper Alloy)	7.4	260
MSS 26K360	2	K (Copper Alloy)	6.8	360
MSS 26K500	2	K (Copper Alloy)	6.4	500
MSS 26K650	2	K (Copper Alloy)	5.9	650
MSS 26K1000	2	K (Copper Alloy)	5.7	1,000
MSS 26K1300	2	K (Copper Alloy)	6.2	1,300
MSS 26K2000	2	K (Copper Alloy)	5.8	2,000
MSS 26K3300	2	K (Copper Alloy)	5.4	3,300
MSS 26N4600	2	N (Nickel-Chr)	5.8	4,600

Issued date: 2022-10-22

Director:

穆大玉



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



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
Tel: 0377-63239734 Email: ccc@cn-ex.com



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2022312312000167

Page 4 of 6

MSS	26N8000	2	N (Nickel-Chr)	5.4	8,000
MSS	26N13000	2	N (Nickel-Chr)	5.0	13,000
MSS	26N27000	2	N (Nickel-Chr)	4.8	27,000
MSS	26N40000	2	N (Nickel-Chr)	4.6	40,000
MSS	26N60000	2	N (Nickel-Chr)	4.4	60,000
MSS	26N72000	2	N (Nickel-Chr)	4.2	72,000

Dual core: 300V

Model		Core Number	Core Material	Cable Outside Diameter (mm)	Resistance (Ω /Km @ 20°C)
MSS	23K210	2	K (Copper Alloy)	5.4	210
MSS	23K300	2	K (Copper Alloy)	5.0	300
MSS	23K400	2	K (Copper Alloy)	4.8	400
MSS	23K480	2	K (Copper Alloy)	4.8	480
MSS	23K650	2	K (Copper Alloy)	4.6	650
MSS	23K1000	2	K (Copper Alloy)	4.1	1,000
MSS	23K1300	2	K (Copper Alloy)	3.8	1,300
MSS	23K2000	2	K (Copper Alloy)	5.0	2,000
MSS	23K2400	2	K (Copper Alloy)	4.8	2,400
MSS	23K3000	2	K (Copper Alloy)	4.6	3,000
MSS	23K4600	2	K (Copper Alloy)	4.8	4,600

Issued date: 2022-10-22

Director:

穆大玉



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





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2022312312000167

Page 5 of 6

MSS	23N7500	2	N (Nickel-Chr)	4.6	7,500
MSS	23N11200	2	N (Nickel-Chr)	4.4	11,200
MSS	23N14000	2	N (Nickel-Chr)	4.2	14,000
MSS	23N18000	2	N (Nickel-Chr)	3.8	18,000
MSS	23N26000	2	N (Nickel-Chr)	3.6	26,000
MSS	23N40000	2	N (Nickel-Chr)	3.4	40,000
MSS	23N50000	2	N (Nickel-Chr)	3.6	50,000
MSS	23N60000	2	N (Nickel-Chr)	3.6	60,000
MSS	23N72000	2	N (Nickel-Chr)	3.4	72,000

Maximum withstand temperature: 600°C

Service temperature: -80°C...+440°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:

- Ambient temperature: $-80^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$.

- Ingress protection: IP67.

- T Class shall be assigned with consideration to the graph shown in document Ex-MHC-0223-01. The following temperatures shall not be exceeded:

- $T_1=440^{\circ}\text{C}$

Issued date: 2022-10-22

Director:



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





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2022312312000167

Page 6 of 6

- T2=290℃
- T3=195℃
- T4=130℃
- T5=95℃
- T6=80℃

- The maximum surface temperature of the mineral insulated heating cable is limited by controlled design, CCC certified Ex thermal protective devices shall be used that are suitable for the application.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2112C185, CQST2112C185/01
- 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:



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

