

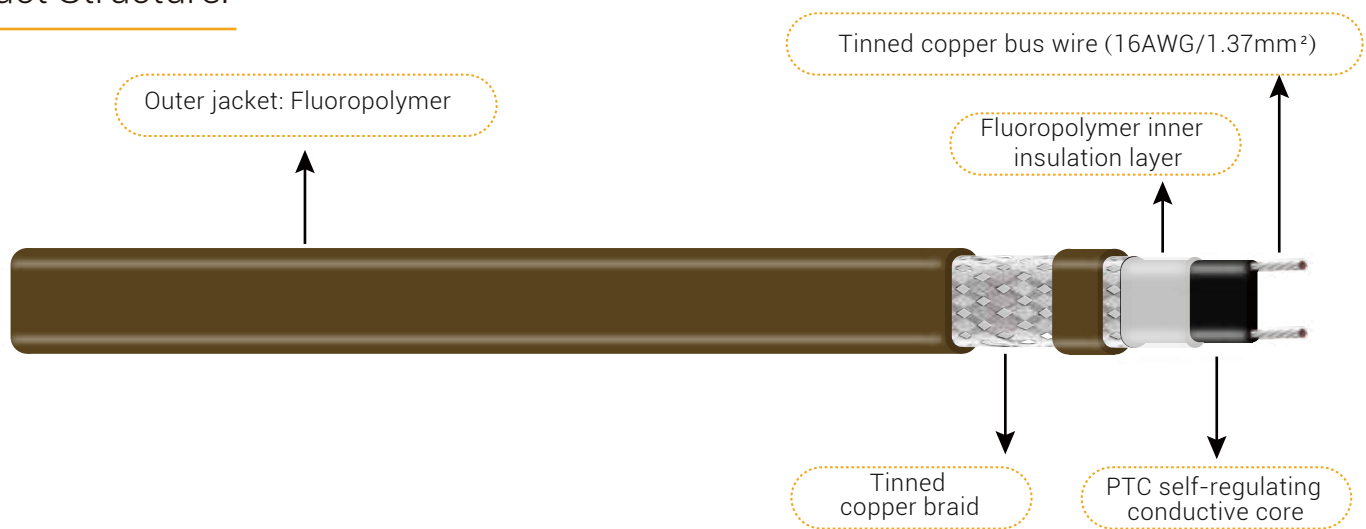


## HTP middle temperature self-regulating heating cable

### Overview:

Jiahong HTP middle temperature self-regulating heating cable can be used for freeze protection application and process temperature maintenance within/out steam purge (or the steam purge temperature will be lower than 135°C) in industry area. The maximum maintenance temperature will be up to 110°C. No matter whether the pipeline is overhead or buried installation, HTP heating cable can maintain the temperature and phase structure of the medium in the pipeline or vessel. HTP heating cable is certified by NEPSI (China), EAC(Russia) and IECEx and ATEX for ex-proof application, as well as to be used in the area which is defined according relative standard.

### Product Structure:



The extruded core tape, which made by parallel tinner copper bus wire and PTC semiconductor polymer heating material, and inner insulation layer of fluoropolymer are added to tinned copper braid and the outer jacket form a complete structure of HTP heating cable, in which the outer jacket can be made of fluoropolymer material (CT).

### Product Feature:

- ◆ HTP heating cable is certified by IECEx, ATEX, NEPSI (China) and EAC (Russia), including explosion-proof application, which can be used in the explosion area and ordinary safety area.
- ◆ According to the characteristics of automatic adjustment of power output based on ambient temperature, it can avoid overheating or burning on heating cable even in the case of overlapping installation; Simultaneously this feature can increase the efficiency of the heat tracing system and reduce energy consumption
- ◆ It is allowed to cut arbitrarily within the interval specified by the maximum circuit length and connect with compliance accessories
- ◆ It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product



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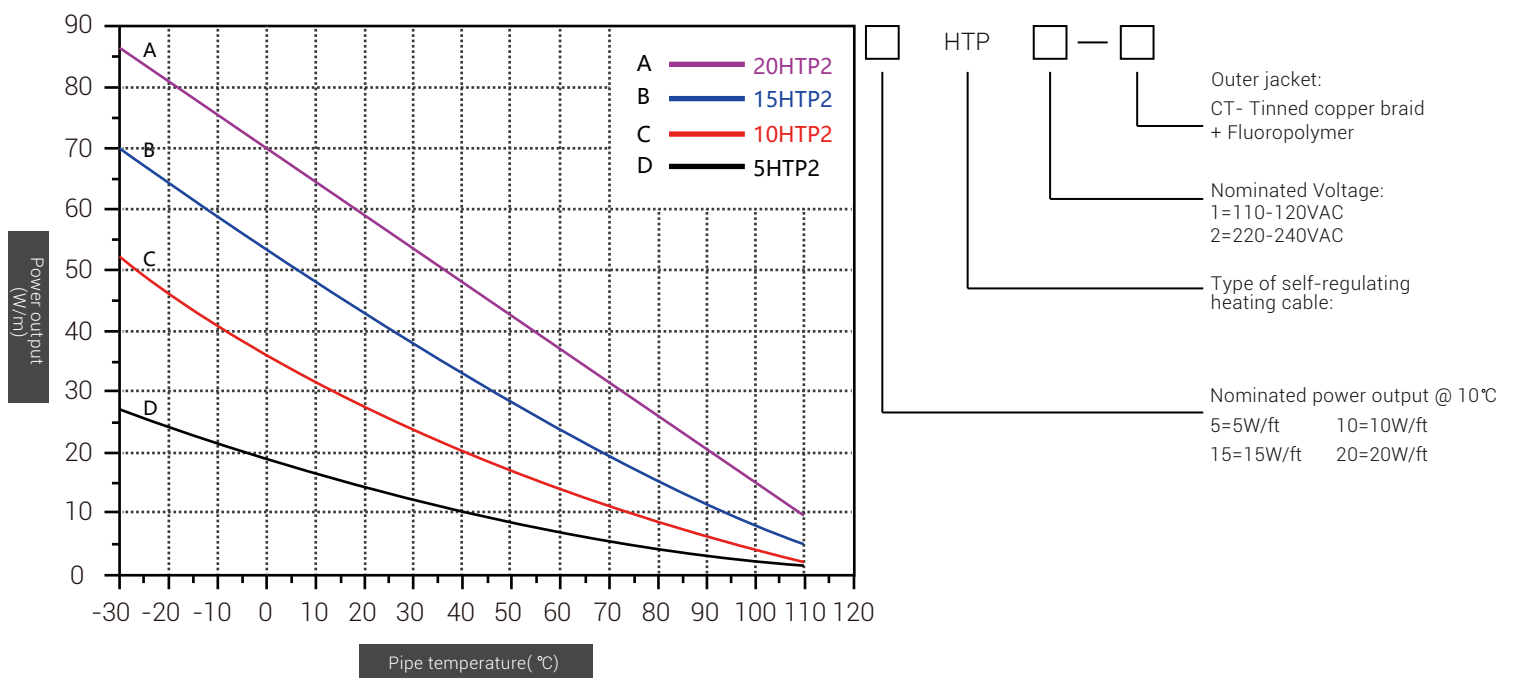
[info@ahjiahong.com](mailto:info@ahjiahong.com)



## Technical Specification:

Nominated Voltage:	110-120V(HTP1) / 220-240V(HTP2)
Maximum maintaine temperature:	+110℃ (225℃)
Maximum intermittent exposure temperature:	+135℃ (275°F)
Temperature classification:	T4
IP level:	IP66/67
Minimum installation temperature:	-60℃ (-76°F)
Minimum bending radius:	30mm
Nominated power output @10℃:	5W/ft, 10W/ft, 15W/ft, 20W/ft
Dimension:	CT: 12.36mm(W)×4.76mm(T)
Approvals mark:	    

## Power output curve:



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## 120Vac Service Voltage:

CB size(A)	Start-up temperature ℃ (°F)	Max Circuit Length Vs Breaker Size (ft)			
		5HTP1	10HTP1	15HTP1	20HTP1
16	10 (50)	214	157	105	73
	0 (32)	199	147	99	66
	-10 (14)	183	134	90	61
	-20 (-4)	169	124	84	56
	-40 (-40)	146	108	72	49
20	10 (50)	253	196	132	91
	0 (32)	249	184	124	83
	-10 (14)	228	168	113	76
	-20 (-4)	211	155	104	70
	-40 (-40)	183	135	90	61
25	10 (50)	286	202	163	128
	0 (32)	286	202	154	117
	-10 (14)	286	202	141	107
	-20 (-4)	286	194	131	99
	-40 (-40)	265	168	113	86
32	10 (50)	286	202	163	143
	0 (32)	286	202	163	130
	-10 (14)	286	202	163	119
	-20 (-4)	286	202	163	110
	-40 (-40)	286	202	145	95
40	10 (50)	286	202	163	145
	0 (32)	286	202	163	145
	-10 (14)	286	202	163	145
	-20 (-4)	286	202	163	140
	-40 (-40)	286	202	163	122



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## 240Vac Service Voltage:

CB size(A)	Start-up temperature °C (°F)	Max Circuit Length Vs Breaker Size (ft)			
		5HTP2	10HTP2	15HTP2	20HTP2
16	10 (50)	428	314	211	146
	0 (32)	398	294	198	133
	-10 (14)	365	269	181	122
	-20 (-4)	337	248	167	112
	-40 (-40)	292	215	145	97
20	10 (50)	507	393	263	183
	0 (32)	498	367	247	166
	-10 (14)	456	336	226	152
	-20 (-4)	421	310	209	140
	-40 (-40)	365	269	181	122
25	10 (50)	572	404	325	257
	0 (32)	572	404	309	233
	-10 (14)	572	404	283	214
	-20 (-4)	572	387	261	198
	-40 (-40)	531	336	226	171
32	10 (50)	572	404	325	285
	0 (32)	572	404	325	259
	-10 (14)	572	404	325	238
	-20 (-4)	572	404	325	219
	-40 (-40)	572	404	290	190
40	10 (50)	572	404	325	291
	0 (32)	572	404	325	291
	-10 (14)	572	404	325	291
	-20 (-4)	572	404	325	281
	-40 (-40)	572	404	325	243

## Description:

1. The maximum circuit length shown is in accordance with IEC 60898, with Type C circuit breakers as standard, at reference start-up temperature and 10 °C Experimental data obtained from instantaneous trip current characteristics under maintenance temperature conditions. For the maximum loop length corresponding to other trip current characteristics or other types of circuit breakers, please contact the technical representative of Jiahong Company.

2. Although the heat tracing system is generally used to maintain the medium in the pipe or vessel at the required temperature level, the self-regulating heat tracing cable may be at a lower temperature level when it is energized. For design data when the starting temperature is lower than the above temperature, please contact the technical representative of Jiahong Company.

3. Maximum loop length refers to the continuous length of the heating cable, not the sum of the lengths of multiple sections. Relating to current load for each section, please contact the technical representative of Jiahong Company.



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