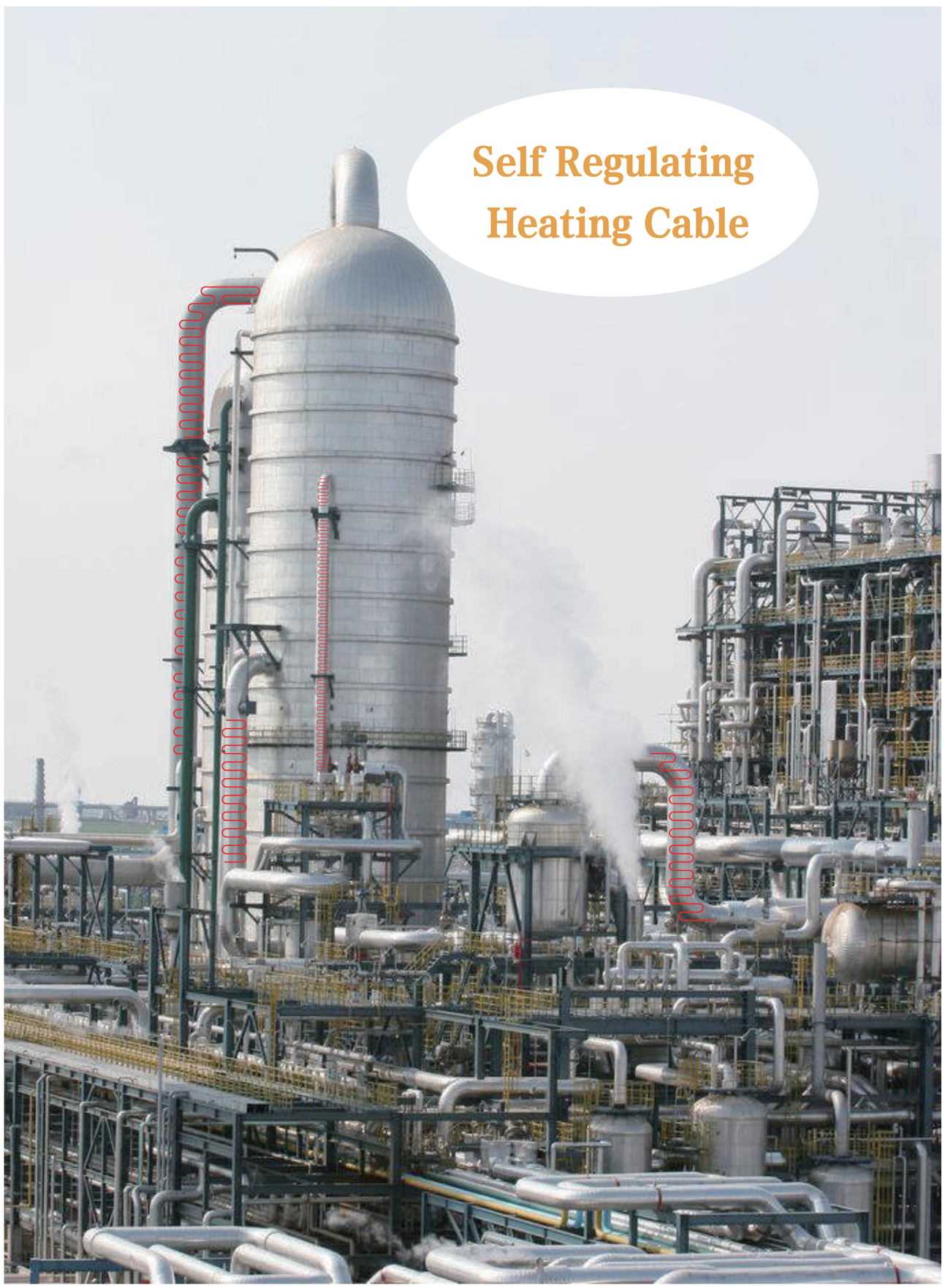
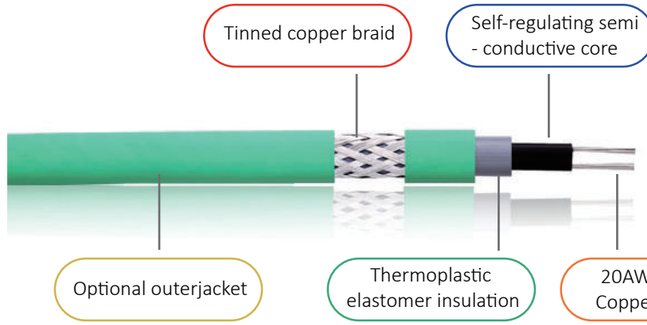


Self Regulating Heating Cable

HTM

Features

- Energy efficient automatically varies its power output in response to pipe temperature changes.
- Easy to install, can be cut to any length (up to max circuit length) required on site with no wasted cable.
- Lower installed cost than steam tracing, less maintenance expense and less downtime.
- No overheat or burnout even when wrapped over itself (overlapped).
- Suitable for use in non-hazardous, hazardous and corrosive environments.
- Jiahong power connection, splice, tee and end seal kit will reduce installation time.



Description

HTM increases or decreases the heat output in a self- regulating way depending on the change of the ambient temperature, so a thermostat may not be necessary in some applications and it will never overheat or burnout even when wrapped over itself (overlapped). With optional outer-jacket, the heating cable is resistant to watery and inorganic chemicals and protects against abrasion and impact damage. HTM is suitable for use in explosion-hazardous areas up to a maximally admissible work-piece temperature of 150 ℉ (65 ℃). Jiahong provides termination,power connection, splice, tee and end seal kit will reduce installation time and require no special skills or tools.

Application

HTM is self-regulating parallel heating cable (heating tape) which can provide safe, reliable heat tracing for freeze protection or temperature maintenance of pipes, valves,flanges, keeping water flowing at-40 ℉ (-40 ℃). It is suitable for use on small diameter plastic or metal pipes.

Options

HTM…C Tinned copper braid provides additional mechanical protection and a positive ground path.

HTM…CR Flame retardant thermoplastic outer jacket protects against certain inorganic chemical solutions, it also protects against abrasion and impact damage.

HTM…CT High-Temperature Fluoropolymer outer jacket is used for exposure to organic or corrosive solutions or vapors may be present.

Technical data

Service voltage	110-120V, 220-277V
Maximum maintain or continuous exposure temperature(power on)	+65℃(150℉)
Maximum intermittent exposure Temperature, 1000 hours (power on or off)	+85℃(185℉)
Minimum installation temperature	-40℃(-40℉)
Protective braid resistance	< 18.2Ω/km
Bus wire gauge	20AWG
Approvals	ETL / EAC / CE

Dimension and weight

Type	Dimension	Weight (kg/100m)
HTM…C	6.7×4.1mm	5.0
HTM…CR	8.3×5.7mm	6.5
HTM…CT	7.7×5.1mm	6.8

Minimum bend radius@68℉(20℃): 12 mm

Product ordering information

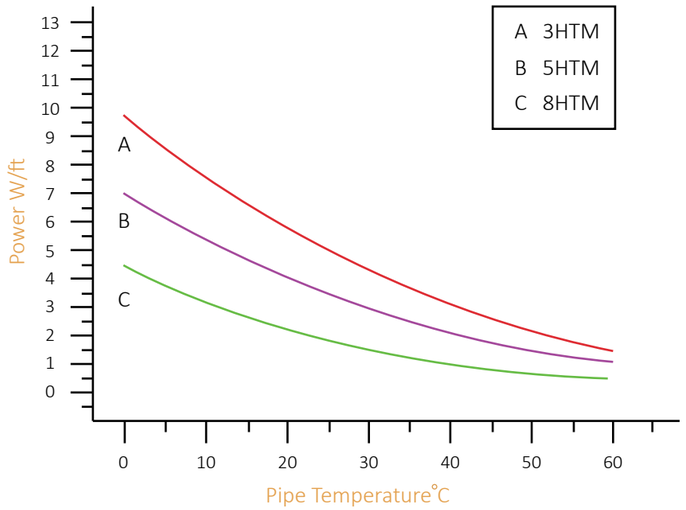
☐ -HTM ☐ - C ☐

For eample:5HTM2-CR

- Outerjacket: R=Thermoplastic;T=Fluorpolymer
- Tinned Copper Braid
- Supply Voltage: 1=110-120VAC;2=220-277VAC
- Type of heating cable
- Output power ft at 10℃: 3=3W/ft; 5=5W/ft; 8=8W/ft

Power output curves

Nominal power output at 240V when HTM installed on insulated metal pipes.



Maximum circuit length (in feet) per circuit breaker

	Ambient temperature at start-up		120V			240V		
			10A	15A	20A	10A	15A	20A
3HTM	50℉	(10℃)	160	160	160	320	320	320
	32℉	(0℃)	160	160	160	320	320	320
	14℉	(-10℃)	120	130	160	240	260	320
	0℉	(-18℃)	107	120	140	214	240	280
	-20℉	(-29℃)	88	107	133	176	214	266
	-40℉	-(-40℃)	73	93	120	146	186	240
5HTM	50℉	(10℃)	107	127	133	214	254	266
	32℉	(0℃)	107	127	133	214	254	266
	14℉	(-10℃)	95	105	120	190	210	240
	0℉	(-18℃)	73	93	113	146	186	226
	-20℉	(-29℃)	60	80	107	120	160	214
	-40℉	-(-40℃)	53	67	93	106	134	186
8HTM	50℉	(10℃)	80	87	113	160	174	226
	32℉	(0℃)	80	87	113	160	174	226
	14℉	(-10℃)	70	70	90	140	160	180
	0℉	(-18℃)	53	69	80	106	138	160
	-20℉	(-29℃)	47	63	73	94	126	146
	-40℉	-(-40℃)	40	53	67	80	106	134