

# Self regulating heating cable

**CAHT** Technical sheet CAHT V2



CAHT high temperature self-regulating heating cable consist of a heating semiconductor plastic element which adapts its calorific power (W/m) on each point depending on the local temperature.

This intrinsic feature of the semiconductor heating element allows in some cases to dispense of using a thermostatic controller (self-regulation). We recommend using a control system. They can be cut on the adjusted length directly on the job site.

For your heat tracing installations and especially on temperature maintenance of hot water systems, we strongly recommend the combination of our electronic THS / E controllers with a Pt1000 sensor to apply directly on the pipe. The latter are equipped with a current absorber for start up of self regulating heating cables. They are the guarantee of a rigorous and reliable electronics regulation (energy saving of + 50%).

The fluoropolymer insulation is the guarantee of a perfect thermal and chemical resistance.

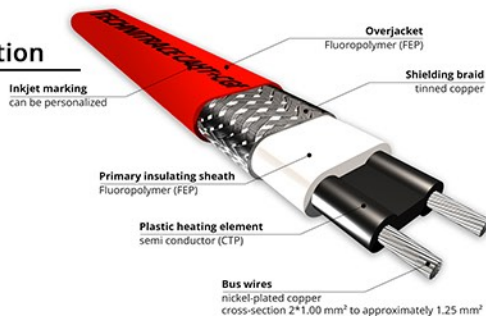
**Do not use with plastic piping**

## Applications

> Temperature maintenance of balloons, tanks, vessels and pipes systems until 85°C.



## CAHT cable composition



It is imperative to comply with FIQ93 operating instructions.

Warranty maxi exposure temperature : power ON = 120°C / power OFF 200°C.

Beyond these exposure temperatures use control thermostat.



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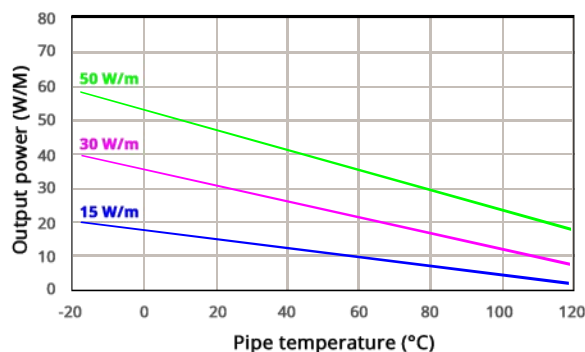
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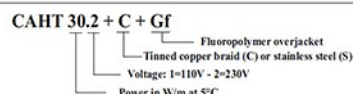
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### Rated output power of insulated metal tubes at 230 V



- FEP fluoropolymer sheath
- FEP fluoropolymer over-sheath (CG version)
- Voltage: 230 V/240 V / 50 or 60 Hz (115 V optional)
- Rating: Maximum rated current \* 2
- Use C or D curve circuit breakers
- Possible current peak of 3 \* In / 300 ms
- Required residual current circuit breaker: 30 mA
- Max length / power supply point = see table
- Max exposure temperature with cable under load: 120°C
- Max exposure temperature with cable disconnected: 200°C
- Max recommended holding temperature: 85°C.



### Maximum circuit length depending on the selected circuit breaker

Heating cable	Start-up temperature (°C)	Maximum circuit length per circuit breaker, in meters, 230V			
		16 A	25 A	32 A	40 A
CAHT 15W	10	143	216	216	216
	-20	113	173	216	216
	-30	105	160	202	211
	-40	98	149	187	195
CAHT 30W	10	85	130	153	153
	-20	70	107	136	141
	-30	66	100	126	134
	-40	62	94	118	125
CAHT 50W	10	62	95	122	122
	-20	52	80	102	107
	-30	50	76	95	100
	-40	47	72	90	95



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