# *High temperature self regulating heating cable* CAHT/Ex

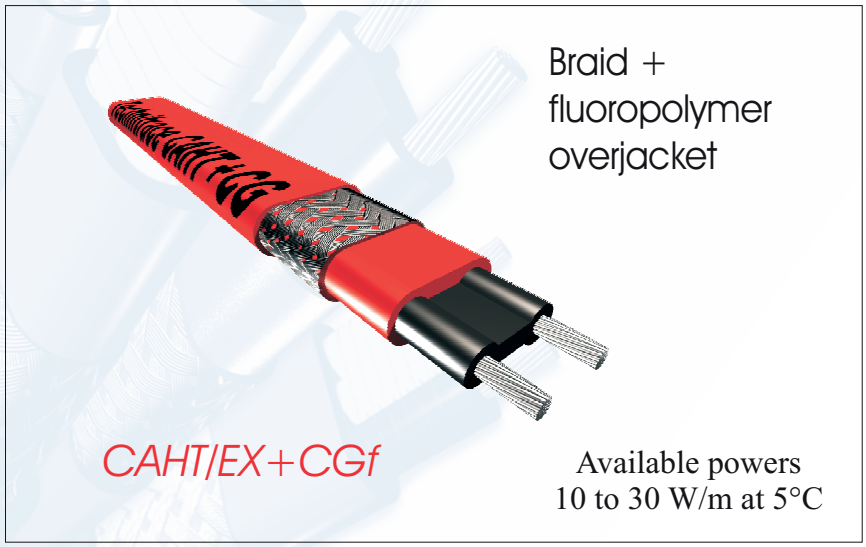
*FIQ 218*

**CAHT/Ex 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 controler (self-regulation).**
**They are reserved for temperature maintenance applications for pipes, tanks and other hydraulic systems located in hazardous area (ATEX - Group II2 GD).**
**Marking: CAHT / Ex - Ex IIC T3 Gb - Ex tb IIIC T200°C Db - IP 66/67**
**Operating range: -50° C < T ambient <+ 120 °C.**

**French manufacturing in accordance with the requirements of the European directive 2014/34 / EU and standards EN 60079-0, EN 60079-7, EN 60079-31, EN 60079-30.1.**
**They can be cut on the adjusted length directly on the job site.**

## Applications

**Freeze protection of pipes in hazardous area (ATEX).**
**Temperature maintenance until 85°C of thermical sensitive products when using control thermostats is difficult or not possible.**




***Maximum temperature exposure (power ON - energized): 120°C***
***Maximum temperature exposure (power OFF - de-energized) : 200°C***
***Maximum advised maintenance temperature : 85°C***

www.heating-cables.com
info@technitrace.fr
www.novatrace.com
www.heating-cables-technitrace.com
TECHNITRACE heating cables

## Advantages

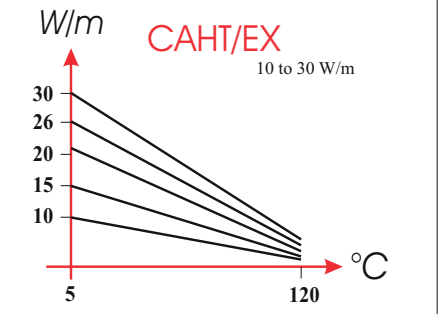
- can be cut directly on the adjusted length on the site.
- allow derivation from a unique and single feed point.
- semiconductor heating element adapts its power locally.
- good flexibility allowing the tracing of hydraulic organs (valves, pumps, ...)
- allow overlaps during implementation (self-regulating).
- maxi temp energized : 120 ° C (power ON)- maxi temp de-energized (power OFF) : 200°C.
- ATEX notification :TECHNITRACE : LCIE 18ATEXQ4004
- ATEX type : LCIE 13ATEX3091X

| | *CAHT/EX 10* | *CAHT/EX 15* | *CAHT/EX 20* | *CAHT/EX 26* | *CAHT/EX 30* |
|---|---|---|---|---|---|
| Power at 5°C | 10 W/m | 15 W/m | 20 W/m | 26 W/m | 30 W/m |
| Power at 85°C | 6 W/m | 9 W/m | 12 W/m | 16 W/m | 18 W/m |
| I current | 0.100 A/m | 0.160 A/m | 0.200 A/m | 0.260 A/m | 0.300 A/m |
| Tolerance | 0 / +4 W/m | 0 / +5 W/m | 0 / +6 W/m | 0 / +4 W/m | 0 / +5 W/m |
| Supply voltage conductors | Nickeled copper 2*1.00 mm² | Nickeled copper 2*1.00 mm² | Nickeled copper 2*1.00 mm² | Nickeled copper 2*1.25 mm² | Nickeled copper 2*1.25 mm² |

| dimensions | CAHT/EX+CGf |
|---|---|
| mini | 5.80 * 10.80 mm |
| maxi | 6.20 * 11.80 mm |

**Printing** *: CAHT/Ex - Ex e IIC T3 Gb - Ex tb IIIC T200°C Db - IP 66/67*
*Temperature range : -50°C < Ambient Temp <+120°C.*

## Main features




Maxi temperature exposure power ON (energized) : 120°C
Maxi temperature exposure power OFF (de-energized): 200°C
Maxi advised temperature maintenance = 85°C

- tinned copper braid +.fluoropolymer FEP overjacket
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current * 2.
- use C or D curve circuit breakers.
- possibility of a maximum current spike of 3 * In / 300ms.
- necessary use differential circuit breaker: 30 mA.
- maximum length / power point = approximately 110 m.

**CAHT/EX 30.2 + CGf**

- Overjacket fluoropolymer FEP
- Tinned copper braid (C)
- Supply voltage: 1=110V - 2=230V
- Power at 5°C (W/m) ( 10 to 30 W/m)

*Thermal dissipation curves are theoretical and given for information purposes*

## Accessories