

FRENCH MANUFACTURER OF HEATING CABLES

PRODUCT CATALOG

# TECHNITRACE

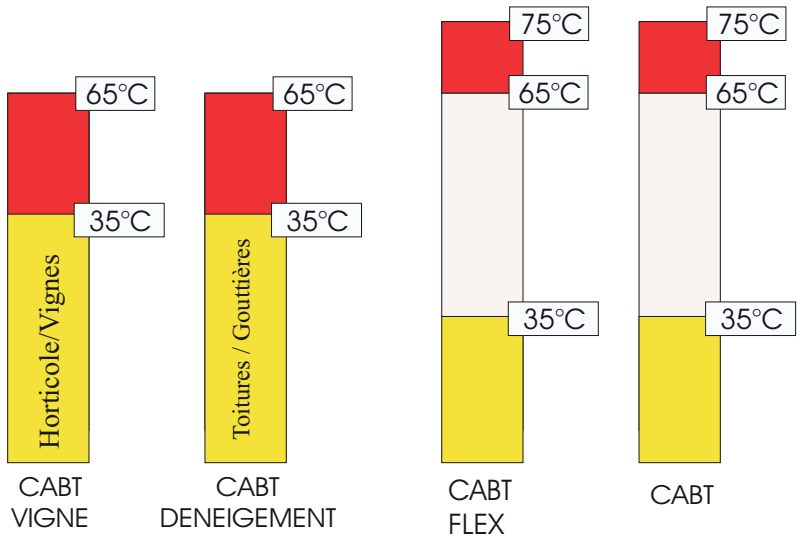
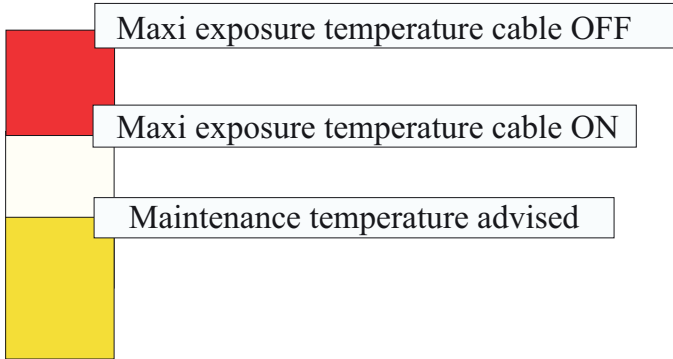
heating  
cables



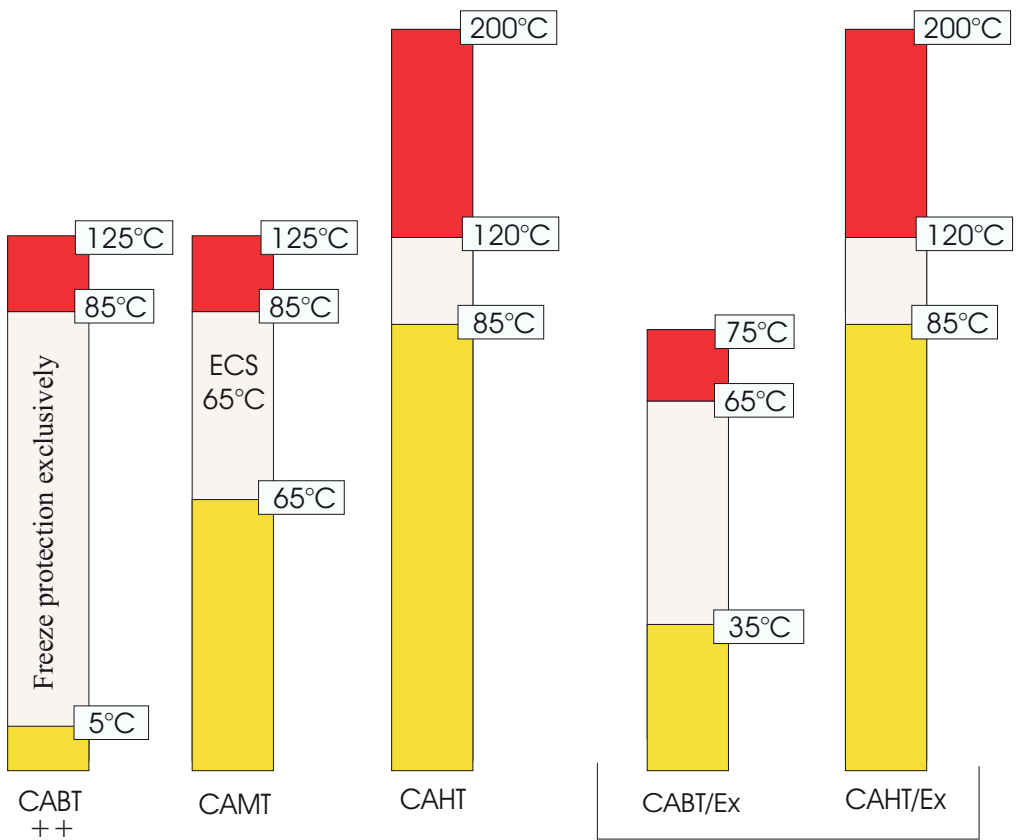
2019 - 2020

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# Technitrace range of Self



# Regulating Heating Cables



# Low temperature self-regulating heating cable **CABT**



CABT low temperature self-regulating heating cables 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).

They can be cut on the adjusted length directly on the job site.


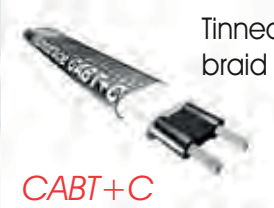


For your heat tracing installations and especially on temperature maintenance of hot water systems, we strongly recommend the combination of our electronic THA / E controllers. The latter are equipped with a current absorber for start up of self-regulating heating cables. They are the guarantee of a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

## Applications

Freeze protection of water and domestic fuel oil pipes.

Temperature maintenance until 25°C of thermal sensitive products when using control thermostats is difficult or not possible.

Snow and icing protection.

 <p>Basic version</p> <p><b>CABT</b></p>	 <p>Tinned copper braid version</p> <p><b>CABT+C</b></p>
 <p>Braid + over jacket version</p> <p><b>CABT+CG</b></p>	 <p>Aluminium foil + ground wires + over jacket option</p> <p><b>CABT+RG</b></p>

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## Advantages

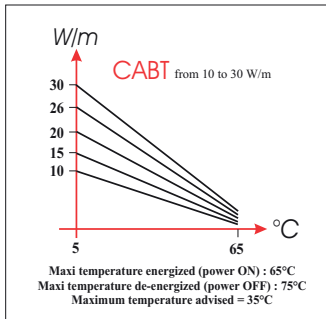
- can be cut directly on the adjusted length on the site.
- allow derivation from a unique and single feed point.
- semiconductor heating element adapts its power locally.
- good flexibility allowing the tracing of hydraulic organs (valves, pumps, ...)
- allow overlaps during implementation (self-regulating).
- maxi temp energized : 65 °C (power on)- maxi temp de-energized : 75°C.
- Technical CSTB approval, in accordance with the European standards in force.



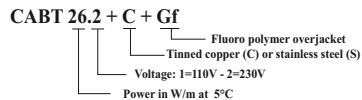
	<b>CABT 10</b>	<b>CABT 15</b>	<b>CABT 20</b>	<b>CABT 26</b>	<b>CABT 30</b>
Power at 5°C	<b>10 W/m</b>	<b>15 W/m</b>	<b>20 W/m</b>	<b>26 W/m</b>	<b>30 W/m</b>
Power at 55°C	<b>3 W/m</b>	<b>4 W/m</b>	<b>5 W/m</b>	<b>7 W/m</b>	<b>8 W/m</b>
I Current	<b>0.130 A/m</b>	<b>0.170 A/m</b>	<b>0.220 A/m</b>	<b>0.260 A/m</b>	<b>0.320 A/m</b>
Tolérance	0 / +4 W/m	0 / +4 W/m	0 / +5 W/m	0 / +5 W/m	0 / +5 W/m
Supply conductors	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.25 mm <sup>2</sup>	Nickel copper 2*1.25 mm <sup>2</sup>
dimensions	<b>CABT</b>	<b>CABT+C</b>	<b>CABT+S</b>	<b>CABT+CG</b>	<b>CABT+RG</b>
mini	3.6 * 9.8 mm	4.6 * 10.8 mm	4.6 * 10.8 mm	5.50 * 11.70 mm	5.50 * 11.70 mm
maxi	4.6 * 10.8 mm	5.6 * 11.8 mm	5.6 * 11.8 mm	6.50 * 12.70 mm	6.50 * 12.70 mm

Basic version

## Main features

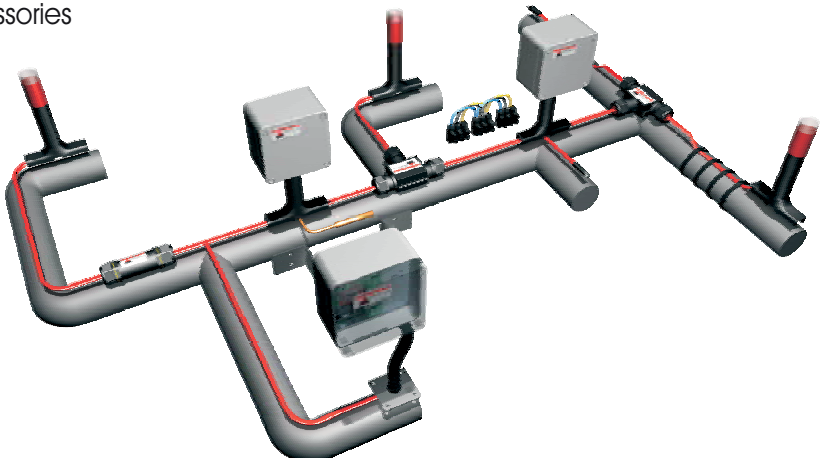


- Polyolefin fire retardant sheath.
- Polyolefin fireproof overjacket (CG or RG version).
- FEP fluoropolymer overjacket (CGf version) for corrosive and chemically aggressive environments.
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current \* 2.
- use C 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.



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

## Accessories



# Self regulating heating cable CABT/De-Icing



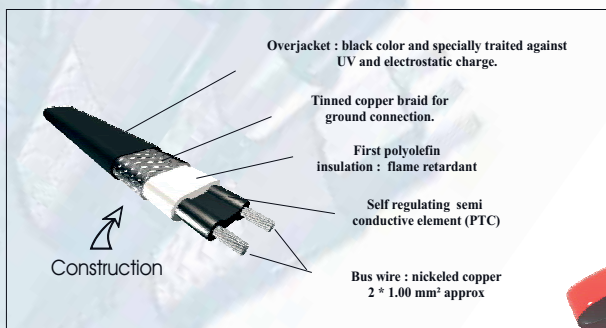
The self regulating heating cable CABT/De-Icing is specially designed to prevent against the accumulation of snow or ice on roofs and gutters.

The innovative technology of the Technitrace self-regulating heating adapts its calorific output (W/m) at each point. In presence of snow or ice, its calorific output will increase locally to melt the snow or the ice. When the heating cable will be in a dry atmosphere it will reduce its calorific output saving energy.

## Applications



- snow removal of roofs and particularly at low slopes,
- snow removal of gutters, connecting gutters between roofs,
- snow removal of gutter runs and heating pipes,
- de-icing of the evacuation gutter, ...



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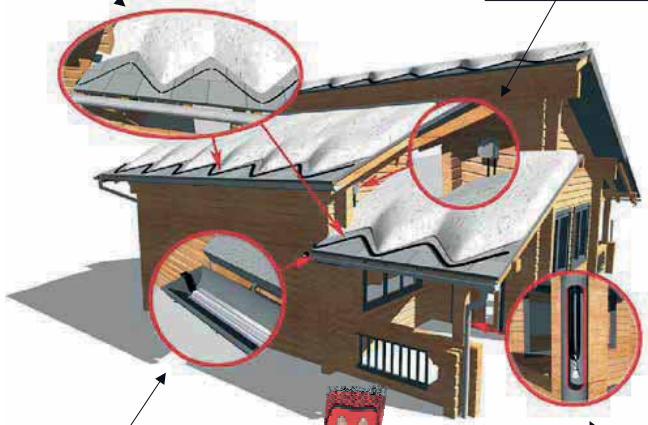


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On the roof: fixation approximately every 0.50m with stainless steel hooks

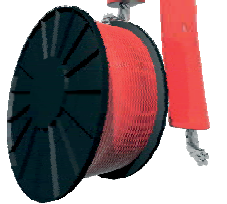
Connexion box equipped with a ambient thermostat insuring the automatic start up during the frosty period



In the gutter mount under a continuous aluminium tape after having cleaned and dried the surface.

Down the drain pipe a cable loop is created to prevent clogging and installed thanks to a weighed hook.

CE



EU

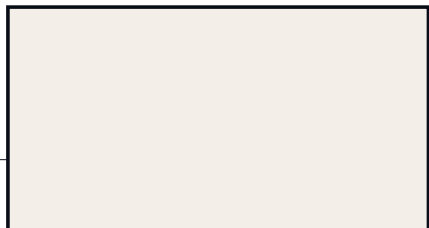
### *Precations for use and special features*

Maximum length circuit : 110 m  
Maximum exposure power on : 65°C  
Maximum exposure power off : 85°C

Breaker thermal protection : 0.30 A/m  
Breaker sensibility : 30 mA advised  
Supply voltage : 230 V / 50 Hz

Output calorific power: following the thermal transfer : 40 to 20 W/m

**Your distributor or contact**





# Low temperature self-regulating heating cable **CABT++**



Version CABT++ / CGF





CABT++ low 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).

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 THA / E controllers. 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%).

## Applications

**Freeze protection of hot water pipes at 65°C or 85°C.**

 <p>Basic version</p> <p><b>CABT++</b></p>	 <p>Braid version</p> <p><b>CABT++/C</b></p>
 <p>Braid + overjacket Version</p> <p><b>CABT++/CG</b></p>	 <p>Aluminium foil+ ground wires+ overjacket version</p> <p><b>CABT++/RG</b></p>

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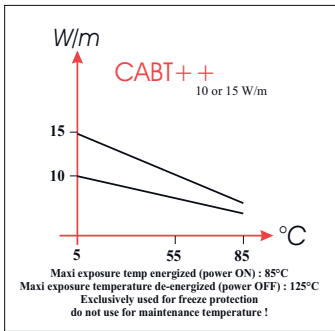
## Advantages

- 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 : 85 °C (power on)- maxi temp de-energized : 125°C.
- Technical CSTB approval, in accordance with the European standards in force.

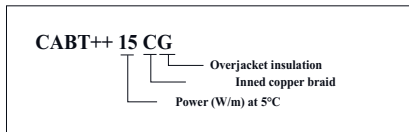


	<b>CABT ++ 10</b>	<b>CABT ++ 15</b>	<b>Other powers on request</b>	
Power at 5°C	10 W/m	15 W/m		
I Current	0.130 A/m	0.170 A/m		
Tolerance	0 / +4 W/m	0 / +4 W/m		
Supply conductors	Copper Nickel 2*1.00 mm <sup>2</sup>	Copper Nickel 2*1.00 mm <sup>2</sup>		
dimensions	<b>CABT++</b>	<b>CABT++/ C</b>	<b>CABT++/ S</b>	<b>CABT++/CG</b>
mini	4.0 * 9.0 mm	4.6 * 9.6 mm	4.6 * 9.6 mm	5.8 * 10.8 mm
maxi	4.4 * 10.0 mm	5.0 * 10.6 mm	5.0 * 10.6 mm	6.2 * 11.8 mm
	Basic version	Approximatives dimensions		

## Main features

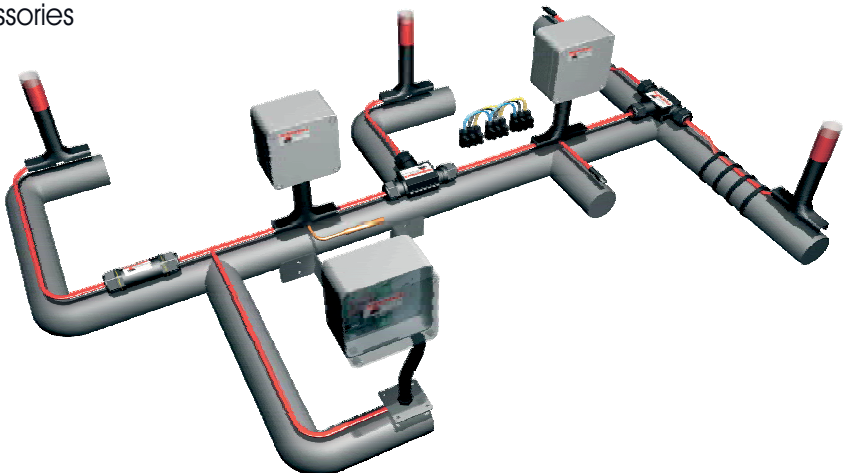


- Exclusively used for freeze protection of pipes do not use for maintenance temperature !
- Polyolefin fire retardant sheath.
- Tinned copper braid or stainless steel braid in option
- Polyolefin fireproof overjacket (CG or RG version).
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal 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.



Thermal dissipation curves are theoretical and given for information purposes

## Accessories



# Medium temperature self regulating heating cable **CAMT**



CAMT medium 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).

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 e perfect thermal and chemical resistance.

## Applications

Temperature maintenance of hot water pipes at 45/50/55°C.

Temperature maintenance of hot water pipes at 60/65°C.

Temperature maintenance of pipes, vessels, balloons until 65°C.

<p>Basic version</p>  <p><b>CAMT</b></p>	<p>Tinned copper braid version</p>  <p><b>CAMT+C</b></p>	<p>Braid + overjacket version</p>  <p><b>CAMT+CGf</b></p>
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*Do not use the CAMT heating cable on plastic pipe.*

*It is imperative to comply with FIQ93 operating instructions.*

*Warranty maxi exposure temperature : power ON = 85°C / power OFF 125°C.*

*Maximum maintenance advised temperature : 65°C.*

*Beyond these exposure temperatures use control thermostat.*

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## 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 : 85 °C (power on)- maxitemp de-energized : 125°C.
- Technical CSTB approval, in accordance with the European standards in force.

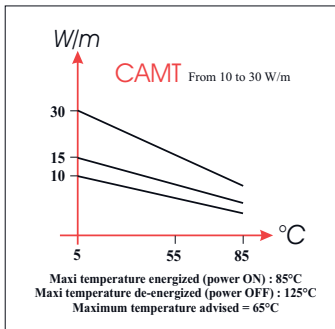


	<b>CAMT 10</b>	<b>CAMT 15</b>	<b>CAMT 30</b>	
Power at 5°C	10 W/m	15 W/m	30 W/m	<b>Other power on request.</b>
Power at 55°C	6 W/m	10 W/m	20 W/m	
I Current	0.130 A/m	0.170 A/m	0.310 A/m	
Tolérance	0 / +4 W/m	0 / +4 W/m	0 / +5 W/m	
Supply conductors	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.25 mm <sup>2</sup>	
dimensions	<b>CAMT</b>	<b>CAMT+C</b>	<b>CAMT+S</b>	<b>CAMT+CG</b>
mini	4.0 * 9.0 mm	4.6 * 9.6 mm	4.6 * 9.6 mm	5.8 * 10.8 mm
maxi	4.4 * 10.0 mm	5.0 * 10.6 mm	5.0 * 10.6 mm	6.2 * 11.8 mm

Basic version

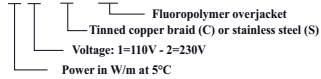
Approximative dimensions

## Main features



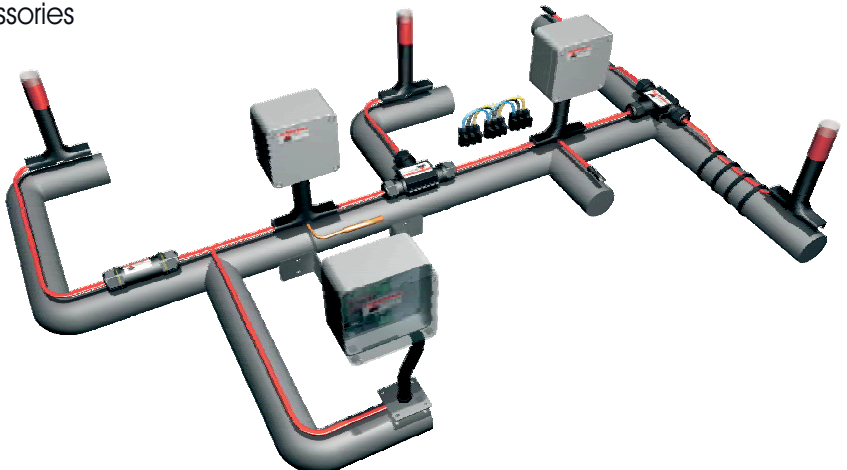
- FEP fluoropolymer jacket.
- FEP fluoropolymer overjacket (CG version) for corrosive and chemically aggressive environments.
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current \* 2.
- use C or D curve circuit breakers.
- possibility of a maximum current spike of 3 \* In / 300ms.
- necessary use differential circuit breaker: 30 mA.
- maximum length / power point = approximately 110 m.
- maxi temperature exposure : power ON = 85°C
- maxi temperature exposure : power OFF = 125°C

### CAMT 30.2 + C + Gf



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

## Accessories



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



Braid + overjacket version

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).

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.

## Applications

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

<p>Basic version</p>  <p>CAHT</p>	<p>Tinned copper braid version</p>  <p>CAHT+CG</p>	<p>Braid + overjacket version</p>  <p>CAHT+CGf</p>
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*Do not use the CAHT heating cable on plastic pipe.*

*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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## 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 exposure temp energized : 120° C (power ON) / de-energized (power OFF) : 200°C.
- construction in accordance with the European standards in force.

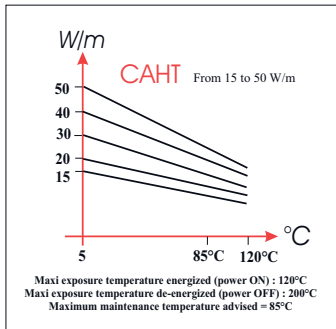


	CAHT 15	CAHT 20	CAHT 30	CAHT 40	CAHT 50
Power at 5°C	15 W/m	20 W/m	30 W/m	40 W/m	50 W/m
Power at 85°C	9 W/m	12 W/m	18 W/m	24 W/m	30 W/m
I current	0.130 A/m	0.173 A/m	0.260 A/m	0.350 A/m	0.430 A/m
Tolérance	0 / +4 W/m	0 / +6 W/m	0 / +6 W/m	0 / +6 W/m	0 / +6 W/m
Supply conductors	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.00 mm <sup>2</sup>	Nickel copper 2*1.25mm <sup>2</sup>	Nickel copper 2*1.25mm <sup>2</sup>	Nickel copper 2*1.25mm <sup>2</sup>
dimensions	CAHT	CAHT +C	CAHT +S	CAHT +CG	
mini	4.0 * 9.0 mm	4.6 * 9.6 mm	4.6 * 9.6 mm	5.8 * 10.8 mm	
maxi	4.4 * 10.0 mm	5.0 * 10.6 mm	5.0 * 10.6 mm	6.2 * 11.8 mm	

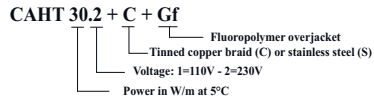
Basic version

Approximative dimensions.

## 1 Main features.

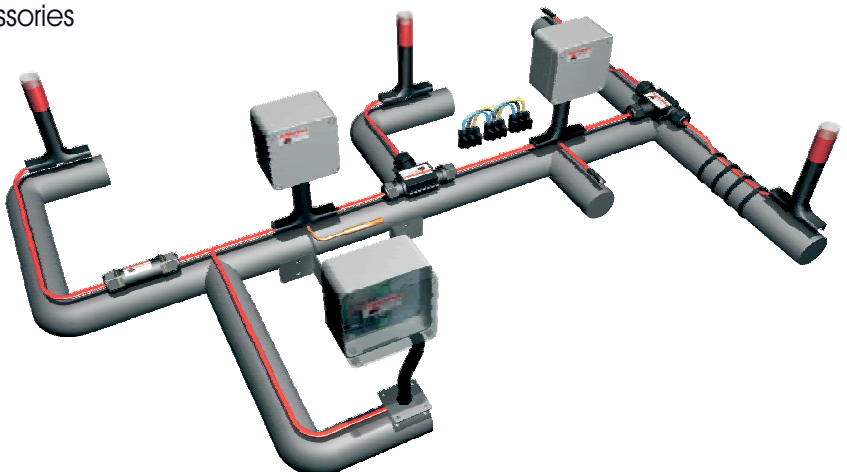


- FEP fluoropolymer jacket
- FEP fluoropolymer overjacket (CGF version) for corrosive and chemically aggressive environments.
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current \* 2.
- use C or D curve circuit breakers.
- possibility of a maximum current spike of 3 \* In / 300ms.
- necessary use differential circuit breaker: 30 mA.
- maximum length / power point = approximately 110 m.
- maxi temperature exposure : power ON = 120°C
- maxi temperature exposure : power OFF = 200°C
- maxi temperature maintenance advised : 85°C



Thermal dissipation curves are theoretical and given for information purposes

## Accessories



# Low temperature self regulating heating cable **CABT/Ex**



FIQ 217

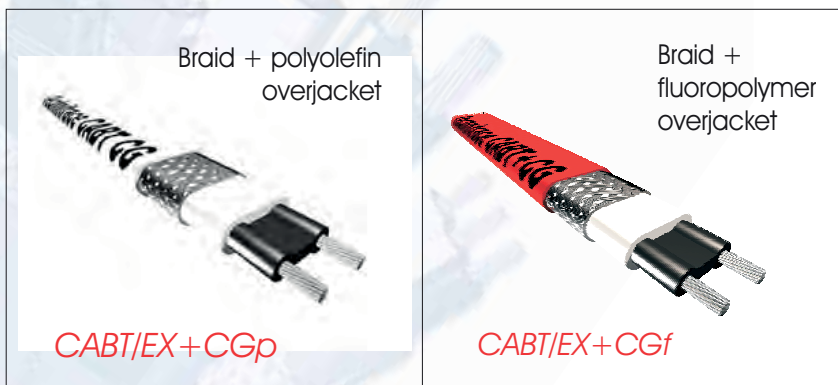


CABT/Ex low temperature self-regulating heating cable consist of a heating semiconductor plastic element which adapts its calorific power (W/m) on each point depending on the local temperature. This intrinsic feature of the semiconductor heating element allows in some cases to dispense of using a thermostatic controller (self-regulation). They are reserved for temperature maintenance applications for pipes, tanks and other hydraulic systems located in hazardous area (ATEX - Group II2 GD).  
Marking: CABT / Ex - Ex IIC T6 Gb - Ex tb IIIC T85 ° C Db - IP 66/67  
Operating range:  $-50^{\circ}\text{C} < T_{\text{ambient}} < +65^{\circ}\text{C}$ .

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  $35^{\circ}\text{C}$  of thermal sensitive products when using control thermostats is difficult or not possible.



Maximum temperature exposure (power ON - energized):  $65^{\circ}\text{C}$   
Maximum temperature exposure (power OFF - de-energized) :  $75^{\circ}\text{C}$   
Maximum advised maintenance temperature :  $35^{\circ}\text{C}$

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## Advantages

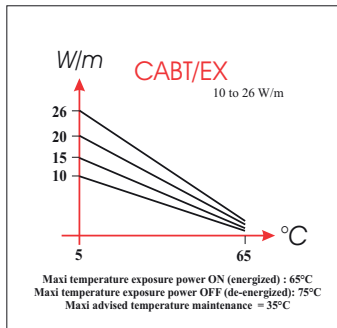
- can be cut directly on the adjusted length on the site.
- allow derivation from a unique and single feed point.
- semiconductor heating element adapts its power locally.
- good flexibility allowing the tracing of hydraulic organs (valves, pumps, ...)
- allow overlaps during implementation (self-regulating).
- maxi temp energized : 65 °C (power ON)- maxi temp de-energized (power OFF) : 75°C.
- ATEX notification : TECHNITRACE : LCIE 18ATEXQ4004
- ATEX type : LCIE 13ATEX3091X



	<i>CABT/EX 10</i>	<i>CABT/EX 15</i>	<i>CABT/EX 20</i>	<i>CABT/EX 26</i>
Power at 5°C	10 W/m	15 W/m	20 W/m	26 W/m
Power at 55°C	3 W/m	4 W/m	5 W/m	7 W/m
I current	0.130 A/m	0.170 A/m	0.220 A/m	0.260 A/m
Tolerance	0 / +4 W/m	0 / +4 W/m	0 / +5 W/m	0 / +5 W/m
Supply voltage conductors	Nickeled copper 2*1.00 mm <sup>2</sup>	Nickeled copper 2*1.00 mm <sup>2</sup>	Nickeled copper 2*1.00 mm <sup>2</sup>	Nickeled copper 2*1.25 mm <sup>2</sup>
<b>dimensions</b>	<b>CABT/EX +CGp</b>		<b>CABT/EX +CGf</b>	
mini	5.50 * 11.70 mm		5.50 * 11.70 mm	
maxi	6.50 * 12.70 mm		6.50 * 12.70 mm	

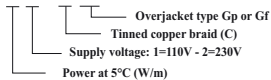
Printing : CABT/Ex - Ex e IIC T6 Gb - Ex tb IIIC T85°C Db - IP 66/67  
 Temperature range : -50°C < Ambient Temp <+65°C.

## Main features



- tinned copper braid.
- fire retardant polyolefin overjacket (CABT/EX + CGp).
- fluoropolymer FEP overjacket (CABT/EX + CGf).
- for corrosive and chemically aggressive environments.
- 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.

### CABT/EX 26.2 + CGf



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

## Accessories





# 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 controller (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:  $-50^{\circ}\text{C} < T_{\text{ambient}} < +120^{\circ}\text{C}$ .

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  $85^{\circ}\text{C}$  of thermal sensitive products when using control thermostats is difficult or not possible.



Maximum temperature exposure (power ON - energized):  $120^{\circ}\text{C}$   
Maximum temperature exposure (power OFF - de-energized) :  $200^{\circ}\text{C}$   
Maximum advised maintenance temperature :  $85^{\circ}\text{C}$

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[www.heating-cables-technitrace.com](http://www.heating-cables-technitrace.com)

## Advantages

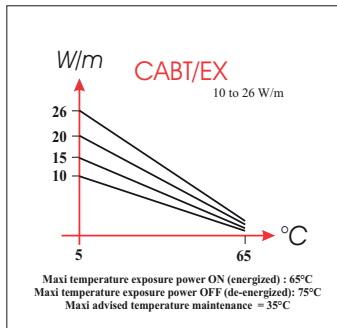
- can be cut directly on the adjusted length on the site.
- allow derivation from a unique and single feed point.
- semiconductor heating element adapts its power locally.
- good flexibility allowing the tracing of hydraulic organs (valves, pumps, ...)
- allow overlaps during implementation (self-regulating).
- maxi temp energized : 65 °C (power ON)- maxi temp de-energized (power OFF) : 75°C.
- ATEX notification : TECHNITRACE : LCIE 18ATEXQ4004
- ATEX type : LCIE 13ATEX3091X



	<i>CABT/EX 10</i>	<i>CABT/EX 15</i>	<i>CABT/EX 20</i>	<i>CABT/EX 26</i>
Power at 5°C	10 W/m	15 W/m	20 W/m	26 W/m
Power at 55°C	3 W/m	4 W/m	5 W/m	7 W/m
I current	0.130 A/m	0.170 A/m	0.220 A/m	0.260 A/m
Tolerance	0 / +4 W/m	0 / +4 W/m	0 / +5 W/m	0 / +5 W/m
Supply voltage conductors	Nickeled copper 2*1.00 mm <sup>2</sup>	Nickeled copper 2*1.00 mm <sup>2</sup>	Nickeled copper 2*1.00 mm <sup>2</sup>	Nickeled copper 2*1.25 mm <sup>2</sup>
<b>dimensions</b>	<b>CABT/EX +CGp</b>		<b>CABT/EX +CGf</b>	
mini	5.50 * 11.70 mm		5.50 * 11.70 mm	
maxi	6.50 * 12.70 mm		6.50 * 12.70 mm	

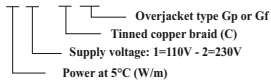
Printing : CABT/Ex - Ex e IIC T6 Gb - Ex tb IIIC T85°C Db - IP 66/67  
 Temperature range : -50°C < Ambient Temp <+65°C.

## Main features



- tinned copper braid.
- fire retardant polyolefin overjacket (CABT/EX + CGp).
- fluoropolymer FEP overjacket (CABT/EX + CGf).
- for corrosive and chemically aggressive environments.
- 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.

### CABT/EX 26.2 + CGf



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

## Accessories



# CERTIFICAT D'ENREGISTREMENT

Le Système de Management de :

## Technitrace

Site principal : Avenue du Général de Gaulle, 89130 Toucy, France.

a été enregistré par Intertek comme étant conforme aux exigences de la norme :

## ISO 9001:2015

Le Système de Management est applicable à :

Fabrication de câbles électriques chauffants.

Certificat n° :

0059737-00

Date de certification initiale :

31 janvier 2014

Date de certification :

27 décembre 2016

Date d'émission du certificat :

08 novembre 2017

Date d'expiration :

30 janvier 2020



**Calin Moldovean**

Président, Business Assurance

Intertek Certification France, 67, boulevard  
Bessières 75017 Paris - France





# NOTIFICATION D'ASSURANCE QUALITE DE PRODUCTION

## PRODUCTION QUALITY ASSURANCE NOTIFICATION



1 Version : 00

**LCIE 18 ATEX Q 4004**

Issue : 00

Directive 2014/34/EU

Directive 2014/34/EU

2 Appareils ou Systèmes de Protection ou Composants listés dans l'annexe incluse à cette notification.

Equipment or Protective Systems or Components as listed in the schedule attached to this notification.

3 Fabricant :

Manufacturer :

**TECHNITRACE**

4 Adresse :

Address :

Avenue du Général De Gaulle  
89130 TOUCY  
FRANCE

5 Lieu(x) de fabrication listé(s) dans l'annexe incluse à cette notification.

Manufacturing location(s) as listed in the schedule attached to this notification.

6 Le LCIE, Organisme Notifié sous la référence 0081 conformément à l'article 17 de la directive 2014/34/EU du Parlement européen et du Conseil du 26 février 2014, notifié au fabricant que le système qualité de production satisfait à l'Annexe IV de la directive.

LCIE, Notified Body number 0081 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014 notifies to the manufacturer has that the production quality system complies with annex IV of the Directive.

Ce système qualité conforme à l'Annexe IV de la Directive, satisfait de plus aux exigences de l'Annexe VII, Assurance Qualité du Produit, et de la norme EN ISO/CEI 80079-34:2011. Accréditation Cofrac Certification de Produits et Services, n°5-0014. Portée disponible sur [www.cofrac.fr](http://www.cofrac.fr).

This quality system in compliance with Annex IV of the Directive also meets the requirements of Annex VII, Product Quality Assurance, and EN ISO/IEC 80079-34:2011 standard. Cofrac Accreditation Product and Services Certification n°5-0014. Scope available on [www.cofrac.fr](http://www.cofrac.fr).

7 Cette notification est fondée sur le(s) rapport(s) d'audit :

This notification is based on audit report(s):

155370-720864

Cette notification peut être retirée si le fabricant ne satisfait plus aux prescriptions de l'Annexe IV. Le maintien de cette notification est subordonné aux résultats des évaluations périodiques annuelles.

This notification can be withdrawn if the manufacturer no longer satisfies to the requirements of Annex IV. Results of periodical re-assessment of the quality system are a part of this notification.

8 Ce document est valable :

This document is valid :

Du / From	Au / To
2018/06/06	2021/06/05

Cette notification peut être retirée si le fabricant ne satisfait pas à la surveillance de l'assurance qualité de production.

This notification can be withdrawn if the manufacturer does not satisfy the production quality assurance surveillance.

9 Conformément à l'article 16.3 de la directive 2014/34/EU le marquage CE doit être suivi numéro d'identification 0081 du LCIE identifiant l'organisme notifié qui intervient dans les phases de contrôle de la production.

According to Article 16.3 of the Directive 2014/34/EU the CE mark shall be followed by the LCIE identification Number 0081 identifying the notified body involved in the production control stage.

Fontenay-aux-Roses, le 13 juillet 2018

Responsable de Certification  
Certification Officer  
Julien Gauthier



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CERT-ATEX-FORM 07 Rev. 02

## VFL

End light to screw directly on a support tube to indicate that the cable is properly working.

## THS/T

Surface thermostat fixed directly on pipe with the support tube.

## P/CONNECT

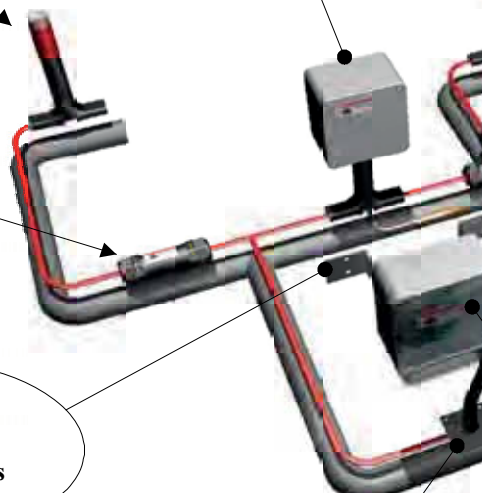
Quick water proof connector for extension of heating cables.

## EQ/FIX

Stainless steel support for boxes and thermostats.

## SC/FLEX

Input / Output insulation kit through a flexible protection tube.



# TECHNITRACE



heating cables

## **BJK/S**

Connexion and junction  
water proof  
box.

## **EXT/T**

End cape for heating cable  
thermo-retractable  
or to seal.

## **EXT/C**

## **T/CONNECT**

Quick T water proof  
connector for heating  
cables.

## **Octopus**

Connection octopus  
to integrate into  
the box.

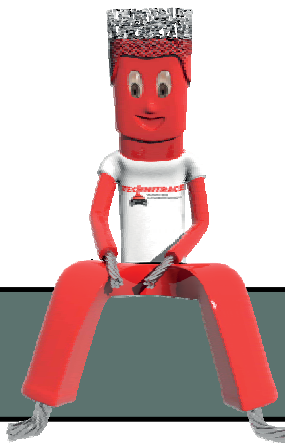
## **T/SCS**

Support tube and direct  
input of cables in box.  
Strapping directly on  
the pipe.

## **THA/E**

Electronic ambient thermostat  
with current limiter for  
self regulating heating cables.

**Our accessories**



# Temperature control

## Ambient thermostat THA/C

Halogen free Polycarbonate box- IP 66 (CEI 529)  
thermostat circuit board- 2 output terminals/ maxi 16 A/230V/400 V  
Cut current on phase / common neutral  
0°C/+50°C - dim : 175\*125\*75 mm



## Electronic ambient thermostat THA/E

Halogen free polycarbonate box - IP 66 (CEI 529)  
130\*130\*73 mm / equipped with Novatrace electronic card  
1 Input 230 V - 1 controlled Output 230 V/16 A.  
Integrated inrush absorber current unit for SR cables.  
Ambient temperature sensor included in M20 Gland.



## Electronic surface thermostat THS/E

Halogen free polycarbonate box - IP 66 (CEI 529)  
130\*130\*73 mm / Novatrace electronic card + LCD display  
1 Input 230 V - 1 controlled Output 230 V/16 A.  
Integrated inrush absorber current unit for SR cables.  
Temperature sensor Pt1000 length 2m / 0-100°C operating range.



## Mini programming console for THA/E

Mini programming console on support feet.  
Allows to re-programming Novatrace devices.  
Energy supply received directly from the Novatrace card.  
Digital LCD display / 3 mini push buttons.  
Programming manual supplied for level I and expert level II.



## ATEX surface thermostat Eex'd' - THD

Capillary surface thermosta with sensitive bulb  
temperature ranges available : 0-100°C or 50-250°C  
capillary protection by flexible sheath SC/FLEX  
Cut current = maxi 16 A - 230 V/400V  
Explosion proof box : Eex'd' IICT6 - 140 \* 140 \* 89 mm  
4 holes 3/4"NPT + 2 plugs + Glands 3/4"NPT



## Surface thermostat THS/S and THS/SS

Water proof box 130\*130\*73 mm - IP 66  
Thermostat circuit board : maxi 16 A / 230 V / 400 V  
version THS/SS : potential free change contact ON/OFF.  
Temperature ranges available : 0 - 100°C or 50 - 250°C  
capillary protected by flexible sheath SC/FLEX.



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[www.heating-cables-technitrace.com](http://www.heating-cables-technitrace.com)



# Connecting devices

## Connecting and junction boxes BJK/S and BJK/RR

Halogen free Polycarbonate box - IP 66 (CEI 529)  
Knock out Input / temperature range : -40°C / + 80°C  
model BJK/S : 130\*130\*74 mm  
model BJK/RR : 175\*130\*74 mm  
Mobile terminals and power gland included



## Quick connectors P & T CONNECT

P-CONNECT : for extension junction  
IP 68 (D<sub>maxi</sub> = 35 mm).  
T-CONNECT : for T junction box IP 65  
temperature range : -20°C / +125°C  
section : mini : 1.00 mm<sup>2</sup> / maxi 2.50 mm<sup>2</sup>  
connexion blocks and washers included.



## ATEX connexion box BJE/EEEx"e" for hazardous area

Increase security connexion box  
II C T6 (85°C) - Ex "e" Graphitized Polycarbonate  
4 holes M 20 + 3 plugs M20 / 1 power gland M20.  
IP 66 / Maxi current 10 A / 230 V / maxi section: 2.50 mm<sup>2</sup>  
DIN rail + 4 bridge terminals  
+ 2 ground terminals / 120\*120\*92 mm



## ATEX explosion proof connexion box BJD/EEEx"d" for hazardous area

Explosion proof box  
for hazardous area  
II C T6 (85°C) - EEx "d" - cast iron  
3 holes 3/4" NPT + 1 plug



## Miscellaneous accessories

### Aluminium adhesive tape ALU-BT or ALU-HT

Roll of adhesive aluminium tape  
width = 50 mm / length = 50 m +/- 10%  
Temperature range : ALU/BT : 105°C - ALU/HT : 200°C



### Adhesive tape POLY50 and FIV 200

Adhesive tape for heat cables strapping  
width = 19 mm / length = 50 m +/- 10%  
POLY 50 : polyester / maxi 60°C  
FIV 200 : armed fiber glass / maxi 150°C



### Modular electrical boxes CE 001 to CE 003

Pre assembled modular electric box  
CE 001 = Circuit breaker 16 Amps + differential 30mA  
CE 002 = Circuit breaker 25 Amps + differential 30mA  
+ Electronic temperature regulator REG 150  
+ power contactor : ask for request



### Temperature sensor PT1000 - length 2m

Temperature sensor PT1000 for electronic Novatrace box  
Flexible cable 2m / 0.75 mm<sup>2</sup> (other length on request)  
Water proof sensor IP x4 / Gland M20 included  
Available for ambient sensor or surface temperature  
for the electronic thermostats THA/E or THE/S.



### Output insulation and fixing tube for boxes T/SCS

Polycarbonate tube allowing direct fixing on process pipe  
of all boxes and thermostats :  
BJK/S, THA/C, THA/E, THS/S,....  
Direct entries of 3 or 4 heating cables.  
For pipe diam >20 mm / maxi temperature exposure 100°C.  
Height from baseplate / tube : 30/120 mm / M32



### Digital insulation tester

Digital insulation tester  
delivered in a storage case with  
2 connecting cables and crocs clips  
Insulation resistance measure under 250 / 500 and 1000 Volts  
Measurement hold function (Hold)



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## Miscellaneous accessories

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### Connection sets for normal zones.

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Complete connexion set CAxT  
for self regulating heating cables CABT, CAMT & CAHT  
Thermo retractable 3/1 and 12/4 + gland M20



### ATEX/EEEx 'e' connection set

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Complete connexion set for hazardous area  
(increased security) Eex'e'  
for self regulating heating cables  
CABT/Ex & CAHT/Ex



### ATEX/EEEx 'd' connection set

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Complete connexion set for hazardous area  
(explosion proof security) Eex'd'  
for self regulating heating cables  
CABT/Ex & CAHT/Ex



**Other accessories available**  
**Do not hesitate to contact our technical departement**

### Virtual presentation on USB key

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USB key which includes a virtual presentation animation  
of Techitrace company.  
Included all installation videos for all  
connexion kits.



# Miscellaneous accessories

## Through insulation kit SC/CAxT

Perforated stainless steel plate  
Gland + gasket + nut  
SC/CAxT : for all self regulating heating cables



## Through insulation into flexible SC/FLEX

Perforated stainless steel plate  
Flexible grooved sheath length 500 mm  
+ 2 end fittings + 2 nuts



## Stainless steel fixing bracket EQ/FIX

Stainless steel folded fixing bracket  
for supporting  
BJK/S, BJK/RR, THA/C, THS, ...



## Voltage indicator lamp

Voltage indicator lamp for the front panel  
VOY230 for 230 V supply voltage or  
VOY400 for 400 V supply voltage  
opening 10 mm wide + bold.



## Self adhesive caution label ETI

Potential danger warning label  
black text on yellow background  
ELECTRIC HEAT TRACING  
Self adhesive



## Spare thermostatic insert

Printed circuit board with thermostatic insert  
for the replacement of surface thermostat  
THS/S or THS/SS  
Temperature available : 0-100°C or 50°C-250°C



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Contact us

**French manufacture of  
Self Regulating Heating cables**

# TECHNITRACE



**câbles  
chauffants**

**SALES REPRESENTATIVE :**

