FRENCH MANUFACTURER OF HEATING CABLES

PRODUCT CATALOG

TECHNITRACE

heating cables

www.heating-cables.com

intertek
Total Quality. Assured.

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° :
0147157

Date de certification initiale :
31 janvier 2014

Date de certification :
13 mars 2023

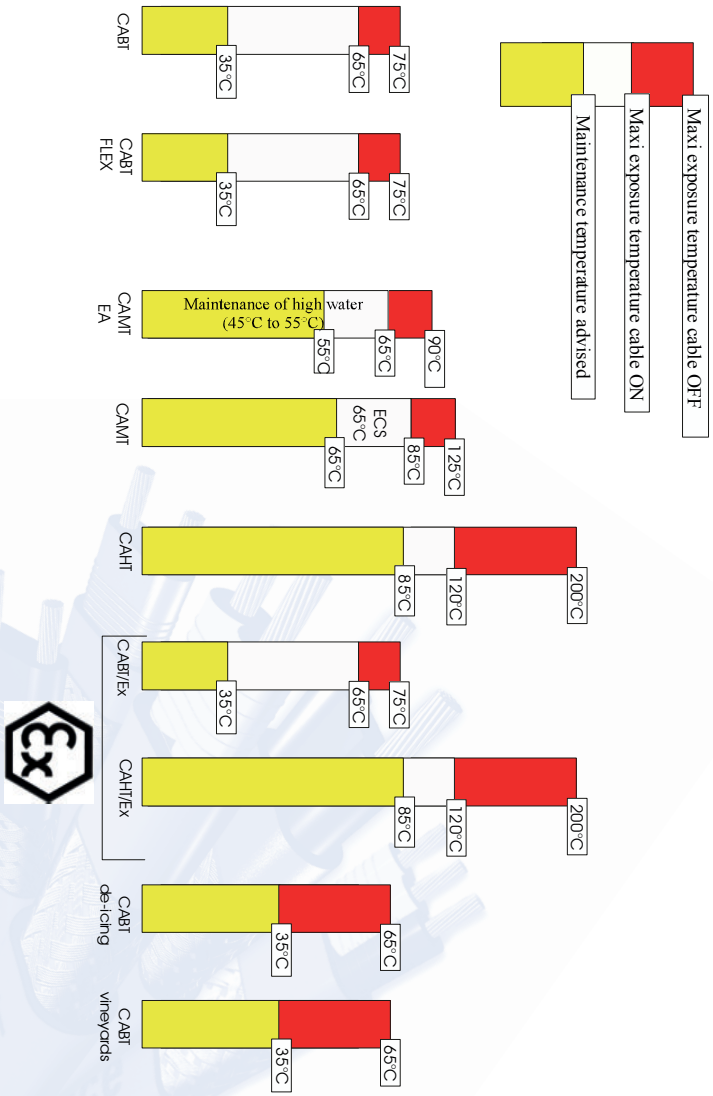
Date d'émission du certificat :
18 avril 2023

Date d'expiration :
30 janvier 2026

Calin Moldovean
Président, Business Assurance

Intertek France Tour PB5, 1 Avenue du Général De Gaulle 92800 Puteaux – France

Our range of Self Regulating Heating Cables



Low temperature self regulating heating cable **CABT**

CE *FIQ 117*

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 controler (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 35°C of pipes, tanks, balloons, ...

Basic version  *CABT*	Tinned copper braid version  *CABT+C*
Braid +over jacket version  *CABT+CG*	Aluminium foil + ground wires + over jacket option  *CABT+RG*

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TECHNITRACE heating cables

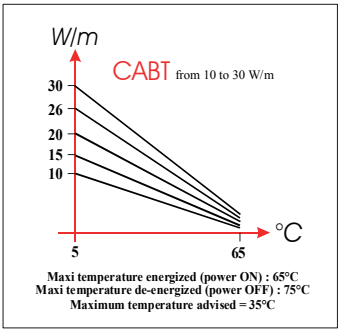
Advantages

- 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 : 65 ° C (power on)- maxi temp de-energized : 75°C.
- Technical CSTB approval, in accordance with the European standards in force.

	CABT 10	CABT 15	CABT 20	CABT 26	CABT 30
Power at 5°C	10 W/m	15 W/m	20 W/m	26 W/m	30 W/m
Power at 55°C	3 W/m	4 W/m	5 W/m	7 W/m	8 W/m
Current	0.130 A/m	0.170 A/m	0.220 A/m	0.260 A/m	0.320 A/m
Tolerance	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 mm²	Nickel copper 2*1.00 mm²	Nickel copper 2*1.00 mm²	Nickel copper 2*1.25 mm²	Nickel copper 2*1.25 mm²
Dimensions	CABT	CABT+C	CABT+S	CABT+CG	CABT+RG
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



Maxi temperature energized (power ON) : 65°C
Maxi temperature de-energized (power OFF) : 75°C
Maximum temperature advised = 35°C

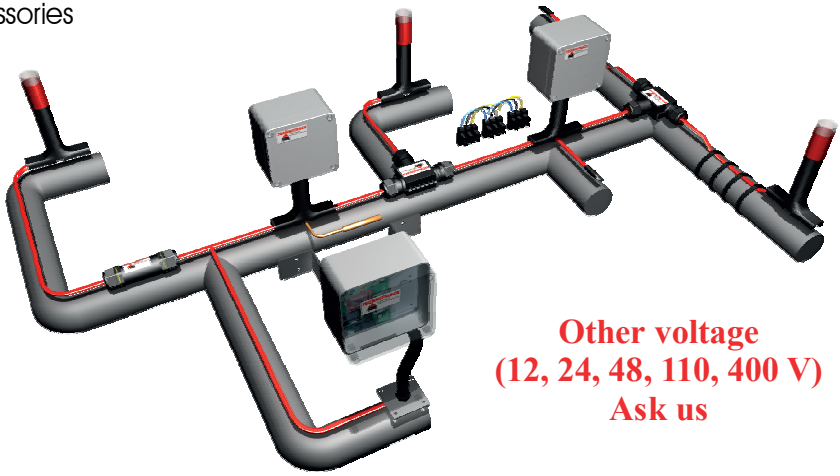
- Polyolefin fire retardant sheath.
- Polyolefin fireproof overjacket (CG or RG version).
- FEP fluoropolymer overjacket (CGf version) for corrosive and chemically aggressive environments.
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current * 2.
- use C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

CABT 26.2 + C + Gf

- Gf: Fluoro polymer overjacket
- C: Tinned copper (C) or stainless steel (S)
- 2: Voltage: 1=110V - 2=230V
- 26: Power in W/m at 5°C

Thermal dissipation curves are theoretical and given for information purposes

Accessories



Other voltage (12, 24, 48, 110, 400 V) Ask us

CABT 24 / 48V

Low voltage self regulating heating cable

CE *FIQ 117*

The CABT/24V and CABT/48V low voltage and low temperature self-regulating heating cables consist of a semi-conductive plastic heating core that adjusts at any point its calorific power (W/m) depending on the local temperature.

This intrinsic feature of the semiconductor heating element can avoid using in certain cases regulation system (self-regulation).

They can be cut to length on site and are therefore very easy to install.

Application range

Freeze protection or low temperature maintenance of pipes, tanks, valves for your camper van, mobile home.
Frost protection of video, cabinets and boxes, antennas, solar panels, etc.
Frost protection of retractable parking bollards.
Use directly on battery or solar panel regulator.

Basic version  CABT	Tinned copper braid version  CABT+C
Braid +over jacket version  CABT+CG	Aluminium foil + ground wires + over jacket option  CABT+RG

24 or 48 V
Direct current

Benefits

- can be cut to the desired length on site.
- direct power supply at 24 or 48 V (depending on version) without transformer.
- allow connecting branches with power from a single point.
- semi-conductive heating element that adjusts locally its heating power.
- good flexibility allowing the tracing of hydraulic components (valves, pumps, etc.)
- allow overlaps during implementation (self-regulating feature).
- CABT heating cables support 65°C power on / 75°C power off (de-energized)

	CABT 10	CABT 15	CABT 30
Power at 5°C	10 W/m	15 W/m	30 W/m
Power at 55°C	3 W/m	4 W/m	8 W/m
Calibration A/m	0.85 A/m	1.25 A/m	2.50 A/m
Tolerance	0 / +4 W/m	0 / +4 W/m	0 / +5 W/m
Bus wires section	Nickled copper 2*1.00 mm²	Nickled copper 2*1.00 mm²	Nickled copper 2*1.25 mm²

24 V CC

Maximum length = 10 m

	CABT 10	CABT 15	CABT 30
Power at 5°C	10 W/m	15 W/m	30 W/m
Power at 55°C	3 W/m	4 W/m	8 W/m
Calibration A/m	0.42A/m	0.65 A/m	1.25 A/m
Tolerance	0 / +4 W/m	0 / +4 W/m	0 / +5 W/m
Bus wires section	Nickled copper 2*1.00 mm²	Nickled copper 2*1.00 mm²	Nickled copper 2*1.25 mm²

48 V CC

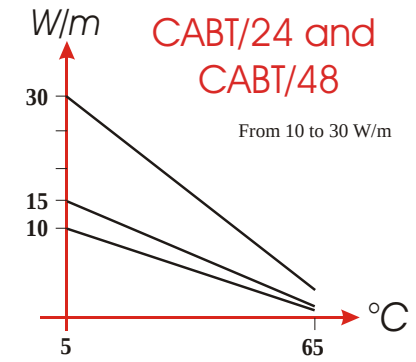
Maximum length = 20 m

dimensions	CABT	CABT+C	CABT+S	CABT+CG	CABT+RG
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

Version base

Other voltages available.
(12, 24, 48,1 15, 230, 400 V)
Ask us.

Main features



Maximum exposition temperature power ON : 65°C
Maximum exposition temperature power OFF : 75°C
Recommended maintenance temperature = 35°C

- Polyolefin fireproof sheath.
- Polyolefin fireproof over jacket (CG or RG version).
- FEP fluoropolymer over jacket (CGf version)
  for corrosive and chemically aggressive environments.
- voltage: 24 or 48 V Direct Current.
- calibration: Maximum nominal intensity * 2.
- use curve C or D circuit breakers.
- possible current peak of 3 * In / 300ms.
- maximum length / power point = 10 or 20 m
- if using THA/C or THS: limit the intensity to 16 A

CABT 30/24 + C + G

- G — Polyolefin over jacket
- C — Tinned copper braid (C) or stainless steel (S)
- 24 — Voltage /24=24 V - /48 =48V
- 30 — Power heating at 5°C

Dissipation curves are theoretical and solely provided for information purposes.

If thermostat THA/C or THS used,
take care to limit the intensity at 16 A/maxi

High flexibility self regulating heating cable

CABT/FLEX

CE *FIQ 117*

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 controler (self-regulation).

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

For your heat tracing installations of cold water, 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 at 5°C and energy saving of + 50%.
The polyurethane insulating sheath offers unrivaled flexibility of implementation in small world of self-regulating heating cables.

Applications

Freeze protection of water and domestic fuel oil pipes.
Temperature maintenance until 35°C of pipes, tanks, balloons, ...

Basic version	Tinned copper braid version
	
CABT/FLEX	*CABT/FLEX +C*

Minimum order : 2*300m

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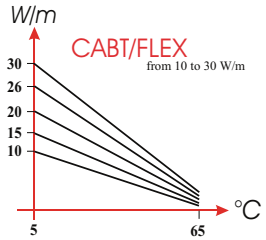
Advantages

- 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.
- VERY HIGH 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.

	10 W/m	*15 W/m*	*20 W/m*	*26 W/m*	*30 W/m*
Power at 5°C	10 W/m	15 W/m	20 W/m	26 W/m	30 W/m
Power at 55°C	3 W/m	4 W/m	5 W/m	7 W/m	8 W/m
I Current	0.130 A/m	0.170 A/m	0.220 A/m	0.260 A/m	0.320 A/m
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 mm²	Nickel copper 2*1.00 mm²	Nickel copper 2*1.00 mm²	Nickel copper 2*1.25 mm²	Nickel copper 2*1.25 mm²
dimensions	CABT/FLEX	CABT/FLEX +C			
mini	3.6 * 9.8 mm	4.6 * 10.8 mm			
maxi	4.6 * 10.8 mm	5.6 * 11.8 mm			
	Basic version				

Minimum of order : 600 m / per type

Main features



Maxi temperature energized (power ON) : 65°C
Maxi temperature de-energized (power OFF) : 75°C
Maximum temperature advised = 35°C

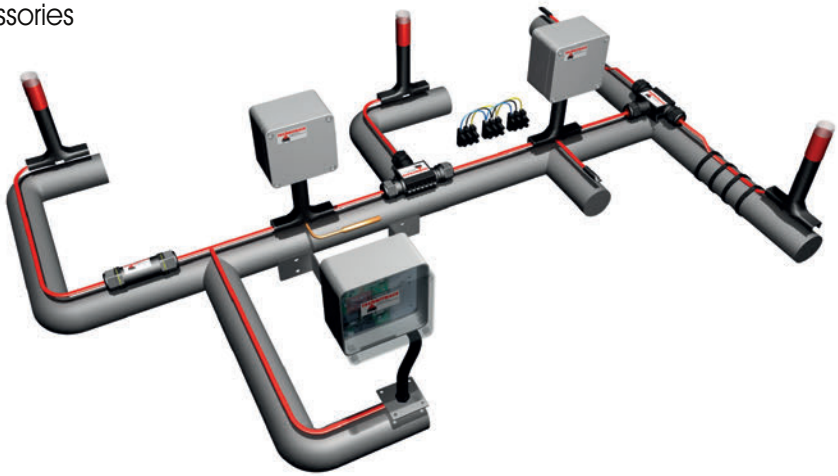
- very flexible Polyurethan jacket.
- tinned copper braid (option).
- thermal calibration: Max. rated current * 2.
- use C or D curve circuit breakers.
- mini order 600m : 12, 24, 48, 115, 230, 400 V
- possibility of a maximum current spike of 3 * In / 300ms.
- necessary use differential circuit breaker: 30 mA.
- maximum length / power point = approximately 110 m.

CABT/FLEX 26.2 + C

- Tinned copper (C)
- Voltage: 1=110V - 2=230V
- Power in W/m at 5°C

Thermal dissipation curves are theoretical and given for information purposes

Accessories



Self regulating heating cable.

CAMT/EA

CE *FIQ 117*

CAMT/EA medium temperature self-regulating heating cables are dedicated to maintaining the temperature of plastic domestic hot water pipes.

Without any regulation or power variator, their innovative constitution is the guarantee never exceed the thermal limits of the pipes or the appearance of a any thermal drift. They consist of a semi-plastic heating element conductor self-regulating at 65°C and adapt their heating power at any point the pipeline according to the local temperature.

Advantages :

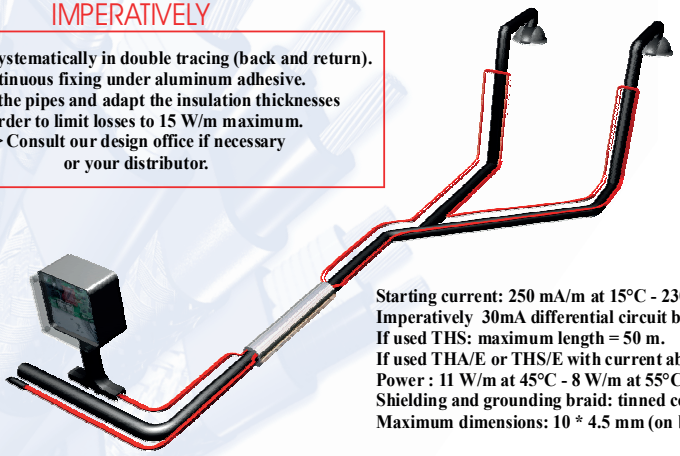
- **cut to length and an adaptation of power according to contact temperature.**
- **FEP insulating sheath for perfect chemical and thermal resistance (anti-bacterial).**
- **semi-conductor element regulated at any point intrinsically at 65°C.**

Application range

- **temperature maintenance of domestic hot water networks 45/50/55°C**
- **other applications: please contact us**

IMPERATIVELY

Installation systematically in double tracing (back and return).
Continuous fixing under aluminum adhesive.
Insulate the pipes and adapt the insulation thicknesses in order to limit losses to 15 W/m maximum.
-> Consult our design office if necessary or your distributor.



Starting current: 250 mA/m at 15°C - 230 V.
Imperatively 30mA differential circuit breaker.
If used THS: maximum length = 50 m.
If used THA/E or THS/E with current absorber = 80 m.
Power : 11 W/m at 45°C - 8 W/m at 55°C.
Shielding and grounding braid: tinned copper.
Maximum dimensions: 10 * 4.5 mm (on braid).

It is imperative to comply with the FIQ 93 Technitrace instructions for use.
Guarantee range: 65°C maximum power on / 90°C de energized

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SELF REGULATING HEATING CABLE

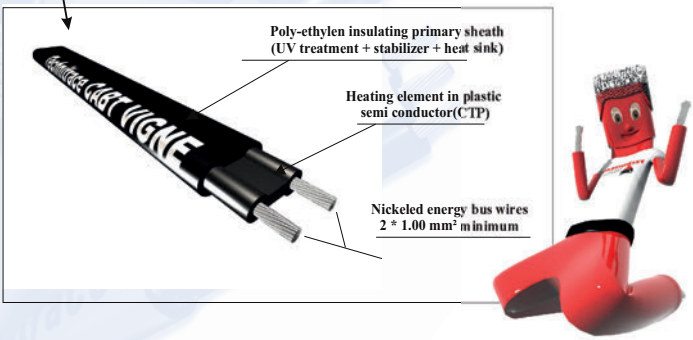
CABT Vineyards

Technitrace company has developed a reliable solution against spring frosts and accumulation of snow or ice on the buds of vines and having widely proven itself in vineyards. Ecological and innovative technology, the CABT++/Vigne self-regulating heating cable can be cut to the precise length at each end of the row without any loss of power calorific linearity of the latter unlike other technologies used. Its outer sheath is specially designed to resist a harsh environment (treatments used by the profession, shocks, bad weather, etc and sun radiations.).

Electronic cards have been specially developed for monitoring installations with intensity absorber and heating cable cut detection.

- ☑ no maintenance and completely autonomous.
- ☑ low initial investment (around 30K/ha*)
- ☑ economical (150 KVA/h or 45 /h per hectare)
- ☑ ecological and durable over several years.
- ☑ simple installation by the winegrower by strapping on the lowering wire.
- ☑ delivered in pre-wired lengths ready to plug in (50 or 100 m) or in bobin of 300m that can be cut on different lengths on site.
- ☑ automatic detection of a circuit break
- ☑ Supply voltage directly on 230 V / 50 Hz
- ☑ UV resistant sheath, chemical treatments, etc.

* other solutions are also available : contact us



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Medium temperature self regulating heating cable **CAMT**

CE *FIQ 117*

Exclusively on metal pipes

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 controler (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 gaurantee of e perfect thermal and chemical resistance.

Applications

Temperature maintenance of hot watter pipes at 45/50/55°C.
Temperature maintenance of hot watter pipes at 60/65°C.
Temperature maintenance of pipes, vessels, baloons until 75°C.

Basic version	Tinned copper braid version	Braid + overjacket version
		
CAMT	CAMT+C	CAMT+CGf

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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TECHNITRACE heating cables

Advantages

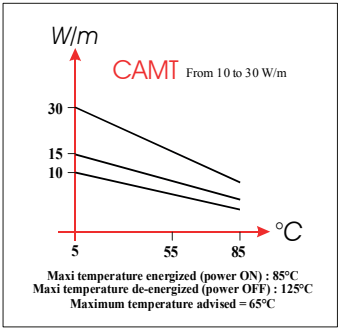
- can be cut directly on the adjusted length on the site.
- allow derivation from a unique and single feed point.
- semiconductor heating element adapts its power locally.
- good flexibility allowing the tracing of hydraulic organs (valves, pumps, ...)
- allow overlaps during implementation (self-regulating).
- maxi temp energized : 85 ° C (power on)- maxitemp de-energized : 125°C.
- Technical CSTB approval, in accordance with the European standards in force.

	CAMT 10	*CAMT 15*	*CAMT 30*	
Power at 5°C	10 W/m	15 W/m	30 W/m	Other power on request.
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 mm²	Nickel copper 2*1.00 mm²	Nickel copper 2*1.25 mm²	

dimensions	CAMT	CAMT +C	CAMT +S	CAMT +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

Main features



Maxi temperature energized (power ON) : 85°C
Maxi temperature de-energized (power OFF) : 125°C
Maximum temperature advised = 65°C

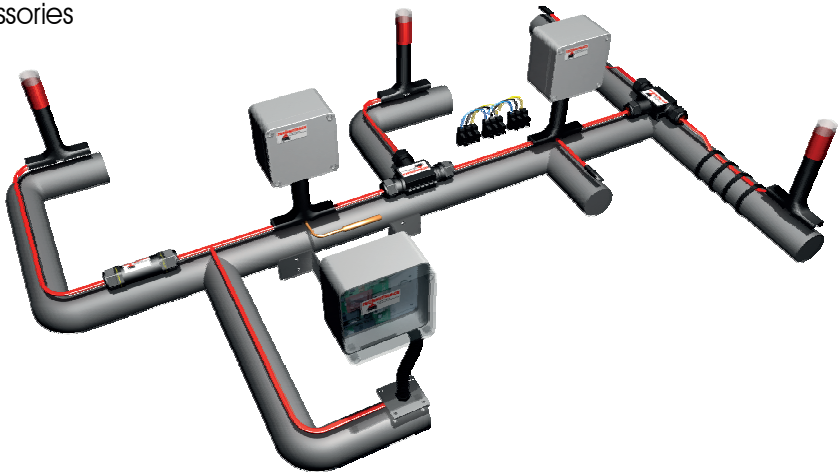
- FEP fluoropolymer jacket.
- FEP fluoropolymer overjacket (CGf version) for corrosive and chemically aggressive environments.
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current * 2.
- use C or D curve circuit breakers.
- possibility of a maximum current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

CAMT 30.2 + C + Gf

- Gf — Fluoropolymer overjacket
- C — Tinned copper braid (C) or stainless steel (S)
- 2 — Voltage: 1=110V - 2=230V
- 30 — Power in W/m at 5°C

Thermal dissipation curves are theoretical and given for information purposes

Accessories



High temperature self regulating heating cable **CAHT**

CE *FIQ 117*

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 controler (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 gaurantee of a perfect thermal and chemical resistance.

Applications

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

Basic version	Tinned copper braid version	Braid + overjacket version
		
CAHT	CAHT+C	CAHT+CGf

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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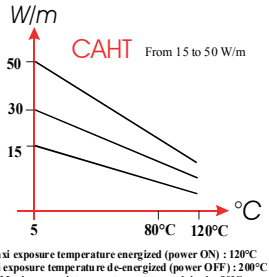
TECHNITRACE heating cables

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 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 30*	*CAHT 50*
Power at 5°C	15 W/m	30 W/m	50 W/m
Power at 80°C	7 W/m	15 W/m	26 W/m
I current	0.130 A/m	0.260 A/m	0.430 A/m
Tolérance	0 / +4 W/m	0 / +6 W/m	0 / +6 W/m
Supply conductors	Nickel copper 2*1.00 mm²	Nickel copper 2*1.25mm²	Nickel copper 2*1.25mm²

Main features.



Maxi exposure temperature energized (power ON) : 120°C
Maxi exposure temperature de-energized (power OFF) : 200°C
Maximum maintenance temperature advised = 80°C

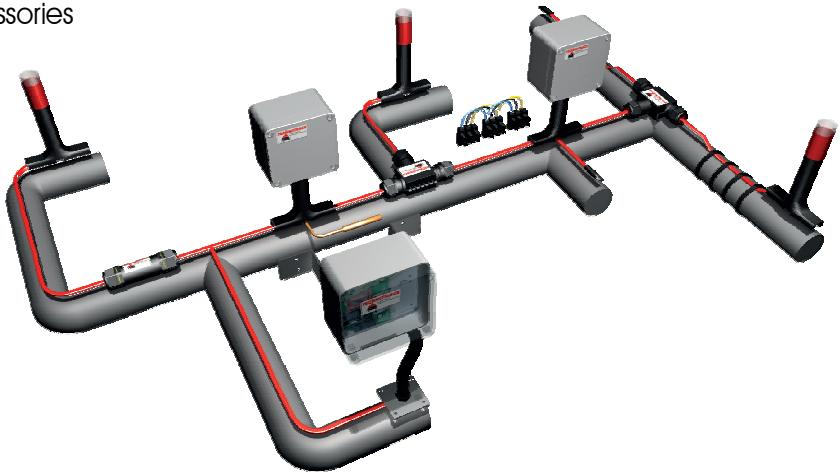
- FEP fluoropolymer jacket
- FEP fluoropolymer overjacket (CGf version) for corrosive and chemically aggressive environments.
- voltage: 230 V / 240 V / 50 or 60 Hz (115 V optional).
- thermal calibration: Max. rated current * 2.
- use C or D curve circuit breakers.
- possibility of a maximum current spike of 3 * In / 300ms.
- necessary use differential circuit breaker: 30 mA.
- maximum length / power point = approximately 150 m.
- maxi temperature exposure : power ON = 120°C
- maxi temperature exposure : power OFF = 200°C
- maxi temperature maintenance advised : 85°C

CAHT 30.2 + C + Gf

- Gf — Fluoropolymer overjacket
- C — Tinned copper braid (C) or stainless steel (S)
- 2 — Voltage: 1=110V - 2=230V
- 30 — Power in W/m at 5°C

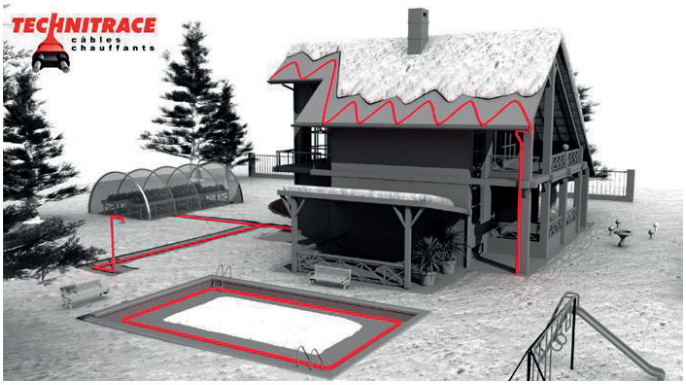
Thermal dissipation curves are theoretical and given for information purposes

Accessories



Self regulating heatin cable

CABT/De-Icing

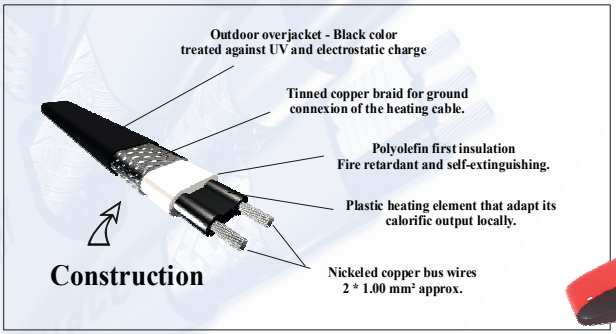


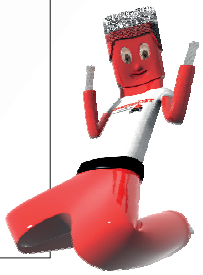
The self regulating heating cable CABT/De-Icing is specily designed to prevent against the accumulation of snow or ice on roofs and gutters.

The innovative technology of the Technitrace self-regulating heating adpts 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 heaving pipes,
- de-icing of the evacuation gutter, ...





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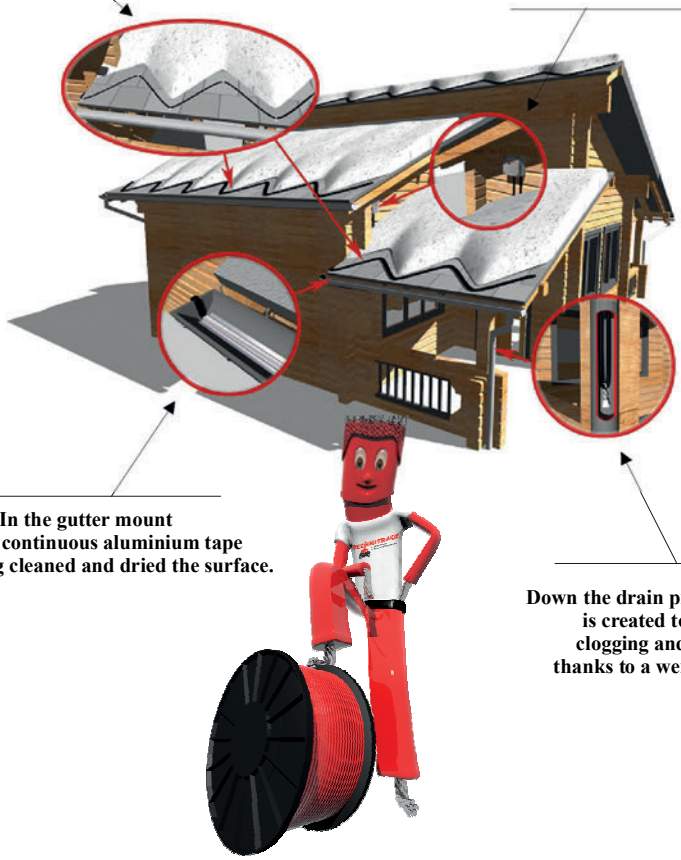
TECHNITRACE heating cables

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

Connexion box equipped with a ambiant 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 weigthed hook.

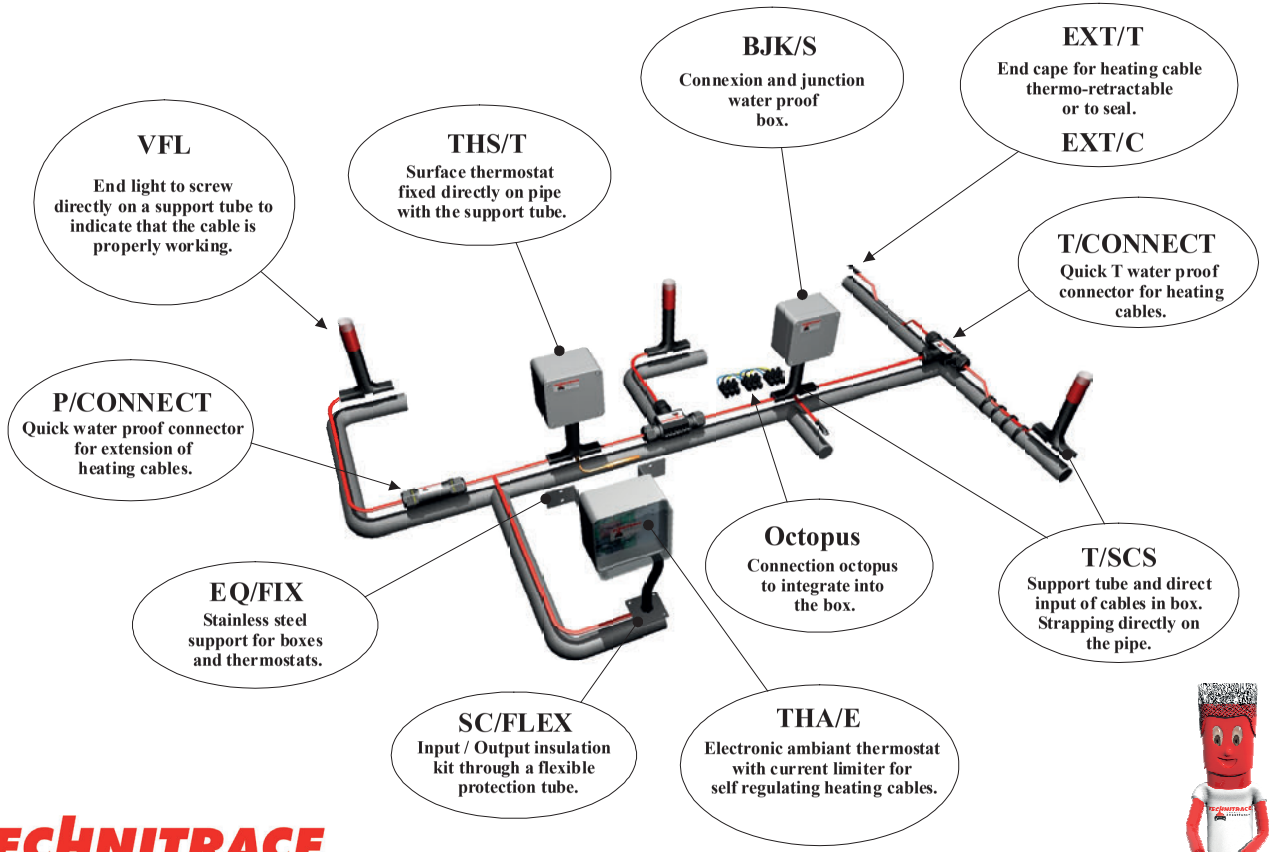
Precations for use and special features

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



TECHNITRACE
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

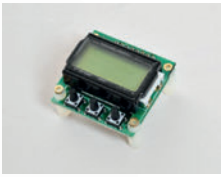
Electronic ambient thermostat THA/E

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.
Ambiant 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 opérating 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.

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 (Dmaxi = 35 mm).
T-CONNECT : for T junction box IP 65
temperature range : -20°C / +125°C
section : mini : 1.00 mm² / maxi 2.50 mm²
connexion blocks and washers included.

ATEX connexion box BJE/EEx"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 mm2
DIN rail + 4 bridge terminals
+ 2 ground terminals / 120*120*92 mm

ATEX explosion proof connexion box BJD/EEx"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 = Crcuit 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 mm2 (other length on request)
Watter 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 mesure under 250 / 500 and 1000 Volts
Measurement hold function (Hold)

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Miscellaneous accessories

Connection sets for normal zones.

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

ATEX/EEx ‘e’ connection set

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

ATEX/EEx ‘d’ connection set

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

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

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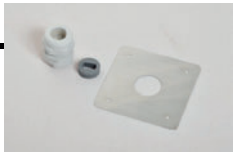
Miscellaneous accessories

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

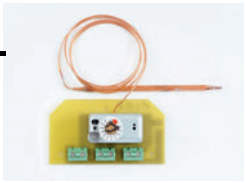
Voltage indicator lamp for the front panel
VOY230 for 230 V supply voltage or
VOY400 for 400 V supply voltage
opening 10 mm wide + bold.

Self adhesive caution label ETI

Potential danger warming 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



Power management and regulation system NOVATRACE

Ambiant electronic regulation THA/E

Surface electronic regulation THS/E

The NOVATRACE electronic regulator has been specially developed for regulation of your electrical tracing installations using self-regulating heating cables.
An integrated starting current absorber allows gradual power-up without over-calibration of thermal protections being necessary unlike the conventional control systems.

Operation mode

The NOVATRACE regulator can be configured
- as a ambiant controller: THA/E version (ambiant temperature sensor)
- as a surface regulator: THS/E version (surface temperature sensor)

Control modes

The regulation can be done according tow different control modes
- ON/OFF mode in the case of surface regulation with temperature sensor directly in contact with the pipe.
- chrono-proportional mode : power ON/OFF time ligne sequences according to the evolution of the ambient temperature over time Q=F(Ta) and regardless of the hydraulic regime of the pipe

Energy control

At any time, the delivered power is in perfect harmony with the real need for the installation. The NOVATRACE system therefore allows perfect control of energy (savings of almost 50%), as well as temperature of maintenance which remains perfectly constant throughout the installation and this whatever the hydraulic regimes of the pipes.

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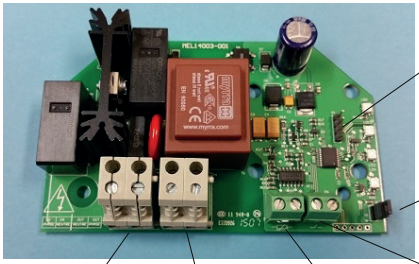
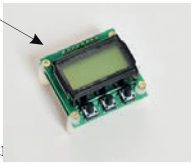
The NOVATRACE card



Main advantages

- Ambient temperature sensor molded in PE M20.
- PT1000 temperature sensor offset by 2000 mm or more on request.
- range of use : 5°C to 120°C.
- works blindly (without visual console).
- mini programming console with digital display (option).
- energy saving because the power delivered over the entire network is the thermal image of the real calorific need.
- current absorber at start-up for self-regulating cables.
- 230 V / 50-60Hz power supply.
- under BJK/S IP 66 enclosure: dim 125*125*85 mm.
- elimination of the risks of overheating on the right of the dead a
- scalable system: possibility of changing the P0 and Tas parameters, differential, time base, current absorber, ...
- factory pre-settings: P0°C = 65% and TAS = 5°C.
- forced start on terminal for preheating.



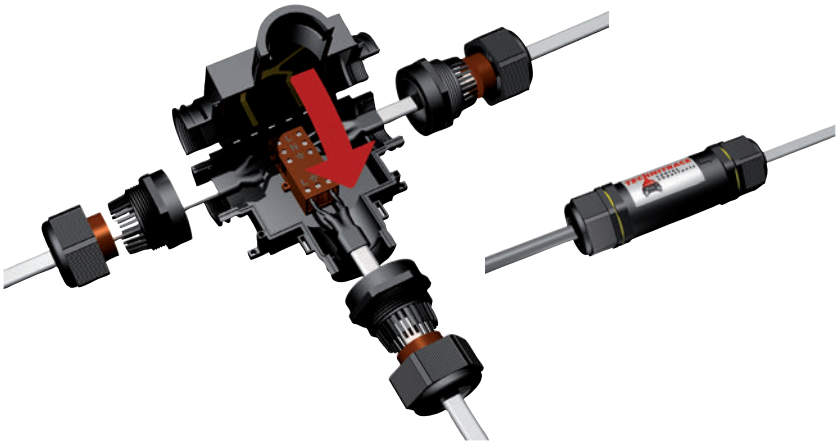
In box THA/E verison

In box THS/E version

TECHNITRACE

heating cables

SALES REPRESENTATIVE :



Impression : VOLUPRINT