

**ELTRACE**

*Self-Regulating Tracing System*



## Geltherm<sup>®</sup> FROST PROTECTING TAPE IS A RELIABLE AND ECONOMICAL SOLUTION TO YOUR PROBLEMS OF FROST PROTECTION

Geltherm<sup>®</sup> range is used for the frost protection of pipes. In the Geltherm<sup>®</sup>+ version, the thermostat automatically switches on the tape when the temperature falls under +5°C. It enables substantial energy savings and offers in complement the advantages and the safety of a self-regulating tape .

Avoids drainings and permanent use of hydraulic networks.

Easy to implement. Available on stock.

Adjustable length according to the network size.

Tape finished and controlled in the factory.

No overheating risk thanks to its **self regulating system**

### Technical properties:

Power supply voltage: 230 V single-phase

Connection with flexible wire, length: 1.5 m

European Standard.

Regulation: Switching on when the temperature falls under +5°C, Switching off at +9°C.



### Packing Composition:

Self regulating heating element

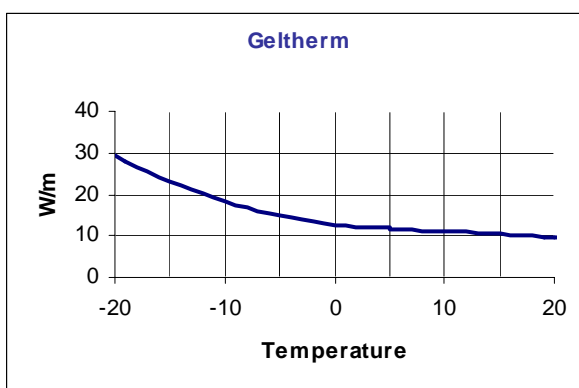
Integrated thermostat

Connection wire with 2 live wires.

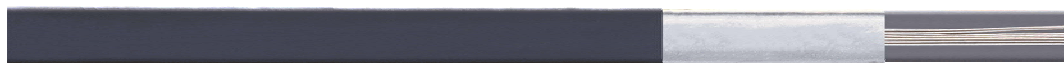
Fixing adhesive.

End cap

Collars



# TRACECO®



## A RELIABLE SOLUTION TO ALL YOUR PROBLEMS OF PROTECTION AGAINST ICE AND MAINTAINING DOMESTIC WATER TEMPERATURE

The TRACECO line, of self-regulating heating tapes is used for protection of pipes and gutters against freezing, and for maintaining the temperature of domestic hot water networks.

Advantages: Cut to length on site. Storage in rolls. Variable power preventing any overheating. Availability in stock. Can be used with the "DOMOCLICK" fast connection system. U.V. protected with Santoprene® over jacket

### Technical properties:

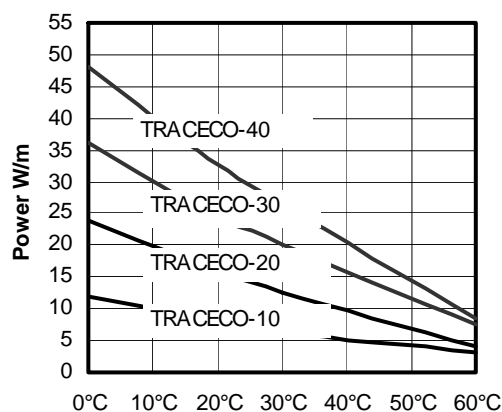
#### Maximum surface Température:

Un-energized: 80°C

energized: 65°C

#### Power supply voltage

230 V mono



Référence	TRACECO®-10	TRACECO®-20	TRACECO®-30	TRACECO®-40
Section	1,23 mm <sup>2</sup>	1,23 mm <sup>2</sup>	1,23 mm <sup>2</sup>	1,23 mm <sup>2</sup>
Size	4,9 x 13	4,9 x 13	5,3 x 15,6	5,3 x 15,6
Max Length	200 m	155 m	120 m	100 m
Protection Circuit breaker curve D	16 A	25 A	32 A	32 A

# TRACECO-15

SELF LIMITING CABLE



THE SOLUTION TO FROST PROTECTION OF YOUR WATER  
AND LOW TEMPERATURE PRODUCT LINES

## Advantages

Cut to length on site, Storage in rolls, Variable power preventing overheating, Availability in stock, Can be used only with ELKSR-1 termination kit.

## Technical properties

Maximum surface temperature:

De-energized : 80°C

Energized : 65°C

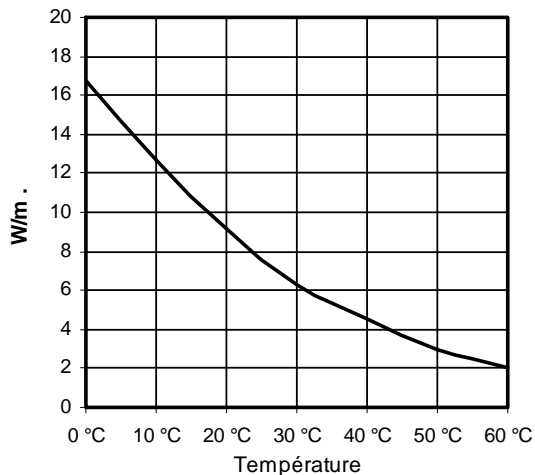
Power supply:

Nominal: 230 V s.ph.

Maximum: 300 V s.ph.

Power :

TRACECO-15 : 15 W/m at 5°C



## Available versions:

TRACECO-15 Aluminium wrap with polyolefin over jacket.

TRACECO-15-T Aluminium wrap with fluoropolymer over jacket.

TRACECO-15-A Aluminium wrap with fluoropolymer over jacket

For internal installation in drinking water pipe

## Approvals:

FIMKO N° FI 17718  
LCIE ATEX N° 0004 U  
GOST POCC  
FR.AIO64.B15284

Reference	TRACECO-15
Bus bar	0.57 mm <sup>2</sup>
Size	8.3 × 5.8 mm
Max circuit length	100 m
Protection (Circuit breaker type D)	16 A

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# TRACECO-W



**A RELIABLE SOLUTION TO ALL YOUR PROBLEMS OF PROTECTION AGAINST ICE AND MAINTAINING DOMESTIC HOT WATER TEMPERATURE**

SELF LIMITING CABLE

## Applications:

The TRACECO line of self-regulating heating tapes is used for pipes and channeling protection against freezing, and for maintaining domestic hot water networks temperature.

## Advantages:

Cut to length on site, Storage in rolls.

Variable power preventing any overheating, Availability in stock, Can be used with the "DOMOCLICK" fast connection system.

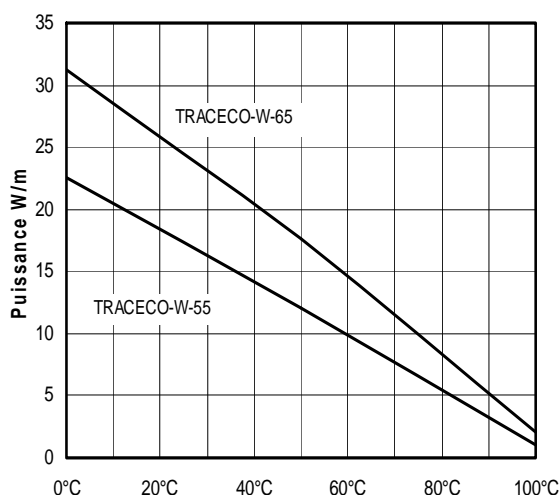
## Technical properties:

Maximum surface temperature :

In continuous: **100°C**

Intermittent: **120°C**

Power supply voltage: 230 V single-phase



TRACECO-W-55 :

22,5 W/m at 0°C

9 W/m at 55°C

TRACECO-W-65

31,5 W/m at 0°C

13 W/m at 65°C

Reference	TRACECO-W-55	TRACECO-W-65
Section	1,23 mm <sup>2</sup>	1,23 mm <sup>2</sup>
Size	12,3 × 5.8 mm	12.3 × 5.8 mm
Max length	120 m	100 m
Protection (Circuit breaker curve D)	20 A	25 A

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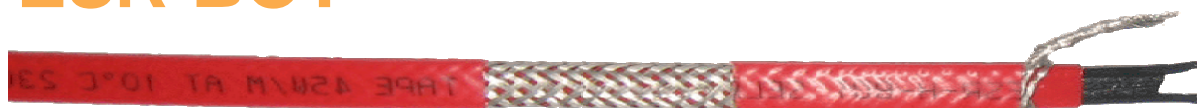
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# ESR-BOT

SELF LIMITING CABLE



**A RELIABLE SOLUTION TO ALL YOUR PROBLEMS OF FROST PROTECTION AND TEMPERATURE MAINTENANCE IN INDUSTRY**

## Advantages :

The ESR-BOT line, of self-regulating heating tapes is used for protection of pipes, tanks, valves in **flameproof** and **corrosive atmosphère**. Cut to length on site. Storage in rolls. Variable power preventing any overheating. Availability in stock.

## Technical Properties:

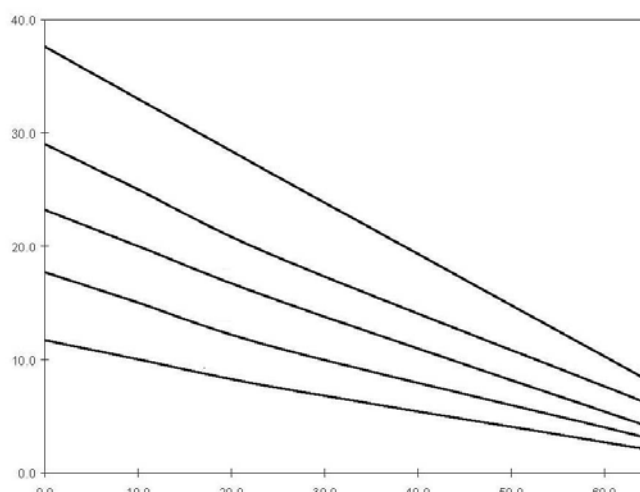
Surface temperature maximum:

De-energized 80°C

Energized 65°C

Power supply voltage:

230 V single-phase



Référence	ESR BOT-10	ESR BOT-15	ESR BOT-20	ESR BOT-25	ESR BOT-33
Section conducteurs	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>
Power at 10°C	10 W/m	15 W/m	20 W/m	25 W/m	33 W/m
Size (mm)	11.5 x 5.5	11.5 x 5.5	11.5 x 5.5	11.5 x 5.5	11.5 x 5.5
Max length	205 m	162 m	140 m	126 m	108 m
Protection (Circuit breaker curve C)	16 A	20 A	20 A	30 A	30 A

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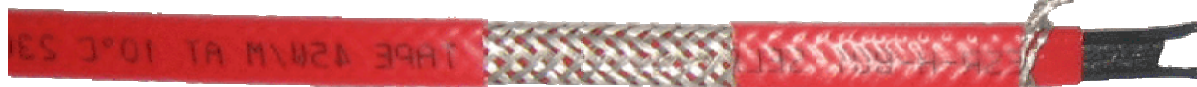
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# ESR-H-BOT

SELF LIMITING CABLE



**A RELIABLE SOLUTION TO TEMPERATURE MAINTENANCE PROBLEMS**

## Applications:

The ESR-H self-regulating heating tape range is used for maintaining the temperature of pipes or tanks at up to 120°C.

## Advantages:

Can be cut to length on site, Stored on reels. Variable power preventing any overheating, Available from stock.

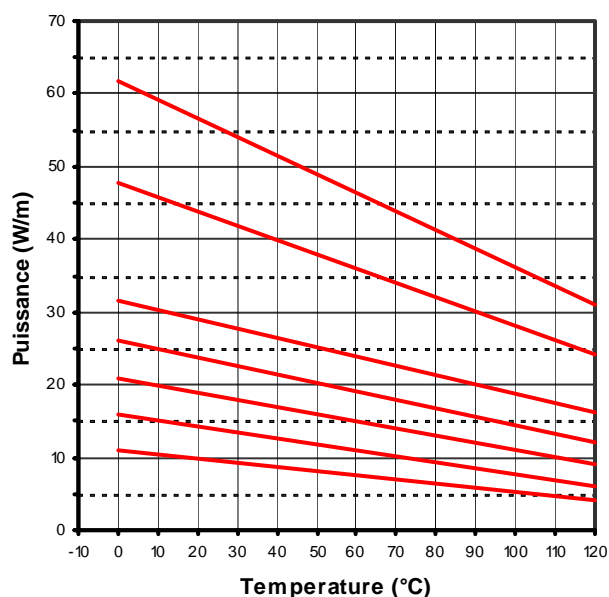
## Technical properties:

Maximum surface temperature range:

In continuous: **120°C**

Intermittent: **200°C**

Power supply voltage: 230 V single-phase



P/N	ESR-H-10	ESR-H-15	ESR-H-20	ESR-H-25	ESR-H-30	ESR-H-45	ESR-H-60
Power at 0°C	11 W/m	16 W/m	21 W/m	26 W/m	31 W/m	47 W/m	62 W/m
Section	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>	1,25 mm <sup>2</sup>
Size	10.5 × 5 mm	10.5 × 5 mm	10.5 × 5 mm	10.5 × 5 mm	10.5 × 5 mm	10.5 × 5 mm	10.5 × 5 mm
Max. length	200 m	165 m	160 m	140 m	114 m	82 m	64 m
Protection (C curve circuit-breaker)	16 A	16 A	20 A	20 A	20 A	20 A	20 A

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# ESR-Refrigeration-40

SELF LIMITING CABLE

## THE UNIVERSAL SOLUTION TO YOUR PROBLEMS OF PROTECTING COLD-ROOM SLIDING DOORS FROM FREEZING UP

### Applications:

The REFRIGERATION line of self-regulating heating tapes is used for cold-room sliding doors protection against freezing

### Advantages:

Cut to length on site, Storage in rolls. Variable power preventing any overheating, Availability in stock, Long time life

### Technical properties:

Maximum surface temperature 55°C.

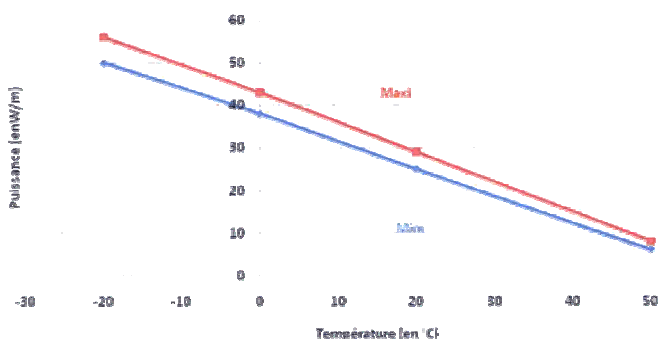
Power supply voltage: 230 V single-phase

Power: 40 W/m at 0°C.

Power: 50 W/m at -20°C.

Maximum length circuit : 125m

Weight : 41.5g/m



Conductor: Stranded nickelled copper

7x0.32mm / Diameter 0.96mm

Section 0.57mm<sup>2</sup>

Extrusion : semi conductive compound

Dimensions : 4.10 x 4.40

Insulation : White thermoplastic polymer

Radial thickness 0.85mm

Thickness 5.6mm +/- 0.4mm

Width 6.1mm +/- 0.4mm

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# ESR-Refrigeration-30

SELF LIMITING CABLE

THE UNIVERSAL SOLUTION TO YOUR PROBLEMS OF  
PROTECTING COLD-ROOM DOORS FROM FREEZING UP

## Applications:

The REFRIGERATION line of self-regulating heating tapes is used for cold-room sliding doors protection against freezing

## Advantages:

Cut to length on site, Storage in rolls. Variable power preventing any overheating, Availability in stock, Long time life

## Technical properties:

ESR-R: plain version.

Maximum surface temperature:

Switched off: 80°C.

Switched on: 65°C.

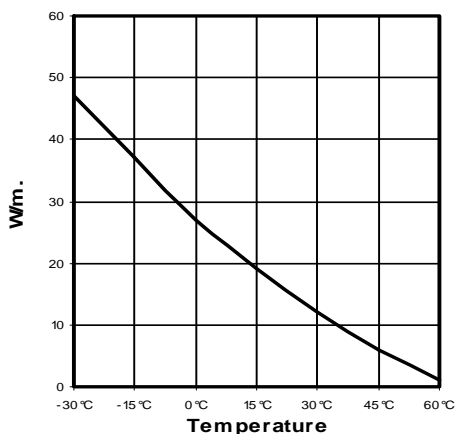
Power supply voltage: 230 V single-phase

Power: 27 W/m at 0°C.

Power: 52 W/m at -30°C.



GOST POCC FR.AIO64.B15284



References	ESR-R-30
Section	0.57 mm <sup>2</sup>
Dimensions	Ø 6mm
Maximum length	80 m
Protection (Circuit breaker curve C)	25 A

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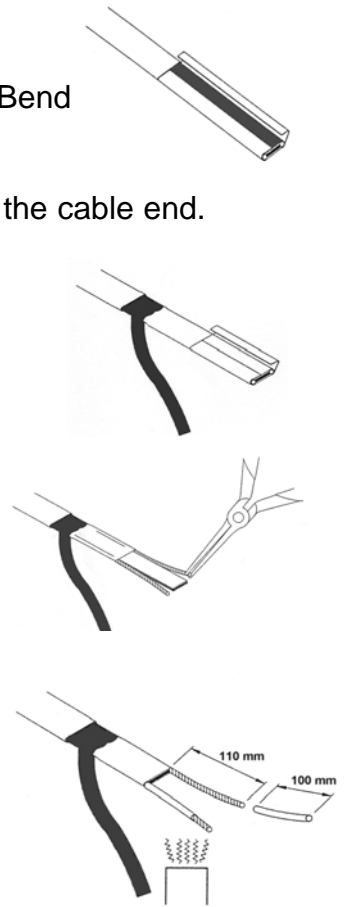
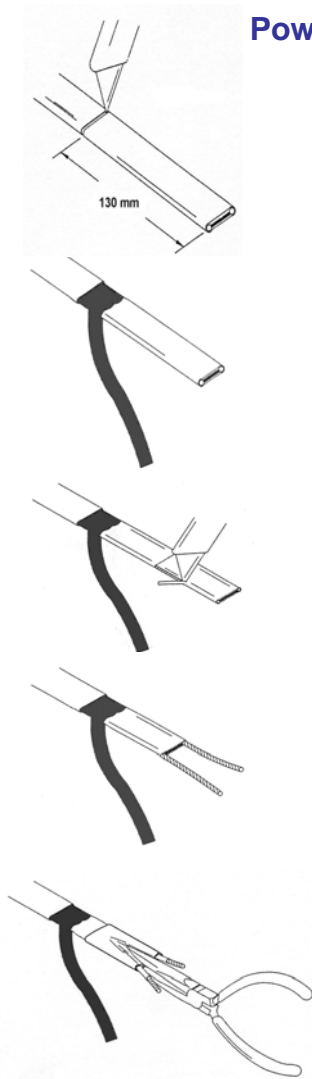
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# termination INSTRUCTION

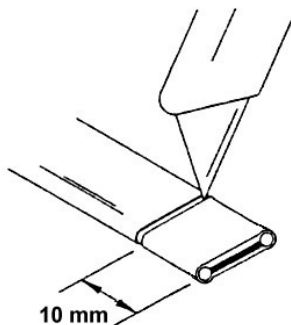
## Power termination for ESR and TRACECO

1. Cut around tape overjacket 130mm from the end. Bend cable to break overjacket.
2. Cut overjacket up the center between first cut and the cable end. Bend cable to break the overjacket.
3. Remove overjacket from the tape.
4. Break alu foil.
5. Remove earth cable.
6. Cut outer jacket around heater 110mm from the end.
7. Remove the jacket from the heating tape.
8. Shave the matrix from the outside of each bus wire.
9. Starting at the end, pull each bus wire away from the matrix.
10. Remove the matrix.
11. Slide shrink tube on each bus wire and shrink with heat gun until completely shrunk.
12. Slide a 50mm shrink tube and shrink with air gun.
13. While still warm, squeeze between bus wire.

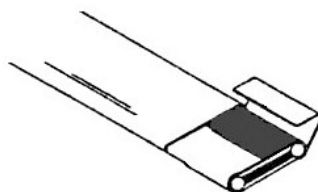


## End seal for ESR and TRACECO

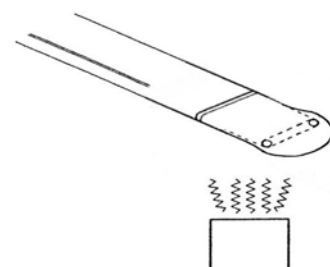
1. Cut overjacket 10mm from the end.



2. Remove overjacket, alu foil and earth wire.



3. Slide end cap and shrink with air-gun.



# eltraceACCESSORIES



**Junction box  
ELBE-8**



**Terminaison kit  
ELKSR-1**



**Ambient Thermostat  
ELTH-A1**



**Surface Thermostat  
ELTH-A2**



**Lagging entry kit  
ELSC**



**Alufoil or Glass cloth  
ELAA-50 ELTV**



**Electronic Controller  
ELTE-1**



**Pipe or thermostat Bracket  
ELSP-P1**



**Adhesive Label  
ELET**

# eltraceSERVICES

The integrity of a group, the response of a team. True to our vocation, Service is a priority of our business. From the design of the installation until the maintenance, you have a warranty "turnkey" incorporating the main study, system design, thermal insulation, performance guarantee and training. Our team of specialists advises you and accompanies you throughout your project.

## ELTRACE COMMITS

A genuine code of practice is based on seven commitments which are testament to the reliability and integrity of our services and our products



### 1- Listening

With regular involvement in your industry and a good knowledge of the applications, our specialists make an accurate diagnosis of your installation. .



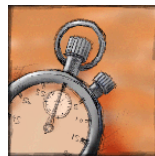
### 2- Cost control

We are looking for technical solutions to comply with your requirements and at the same time helping to control your costs within the expected budget.



### 3- Response

Response to any unexpected design modifications or changes to the planned work schedule ... our teams are adapting to these constraints.



### 4- Delivery compliance

We are committed to meeting deadlines for the receipt of goods or work.



### 5- Quality

We guarantee the products to be tested in accordance with the latest standards and to meet your demands and regulations in force.



### 6- Environment

All our process incorporates the requirements of the Environment both human and technical.



### 7- Performance Guarantee

Once the project is designed, we guarantee the performance in accordance with our installation and operating instructions.