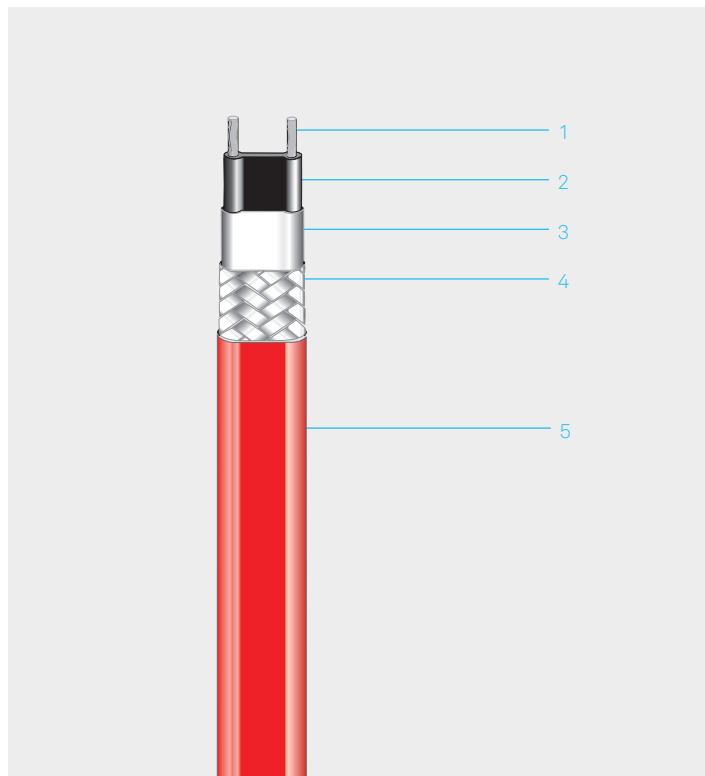


# Self-regulating heating cable HTSB

High temperature, self-regulating parallel heating cable



1	Conductors: stranded copper wire, 1.3 mm <sup>2</sup>
2	Self-regulating, irradiated polymer heating element
3	Fluoropolymer electrical insulation jacket
4	Nickel-plated copper braiding
5	Fluoropolymer protective jacket

- Steam purging possible
- Wide operating temperature range
- Can be used in explosive atmospheres without temperature limiter
- Simple installation thanks to its high flexibility
- Outer protective fluoropolymer jacket ensures resistance to corrosion and chemical influences

A temperature-dependent resistive element between the parallel copper conductors regulates and limits the power output of the heating cable. This output regulation is carried out automatically at every point of the heating cable depending on the prevailing ambient temperature. If the ambient temperature increases, the power output is reduced. The parallel design allows the heating cable to be cut to any length. This simplifies planning and installation. The heating cable is cut directly on the construction site according to the local circumstances. The heating system must be designed to ensure that the maximum operating temperature of +250 °C

## Application

The HTSB heating cable is the right solution for frost protection or temperature maintenance in pipelines or vessels in the industrial area. It is particularly suitable for applications with high ambient temperatures or aggressive chemicals. For questions regarding the chemical resistance please contact your BARTEC sales representative.

## Explosion protection

Marking	Ⓢ II 2G Ex 60079-30-1 IIC T2, T3 Gb Ⓢ II 2D Ex 60079-30-1 IIIIC T200 °C, T300 °C Db
Certification	CML 21ATEX31388 IECEX CML 21.0163

Other approvals and certificates, see [www.bartec.com](http://www.bartec.com)

## Technical data

Nominal voltage	AC 208 to 277 V; 120V on request
Max. exposure temperature	switched on +250 °C
Max. withstand temperature	switched off +250 °C
Min. installation temperature	-40 °C
Min. start-up temperature	-40 °C
Temperature class	T3: 5HTSB2, 10HTSB2, 15HTSB2, 20HTSB2 T2: 25HTSB2, 30HTSB2
Max. braid resistance	<18.2 Ω/km
Dimensions with braiding and Fluoropolymer jacket	12.1 x 5.4 mm
Min. bending radius	35 mm

## Power output at +10 °C and 230 V

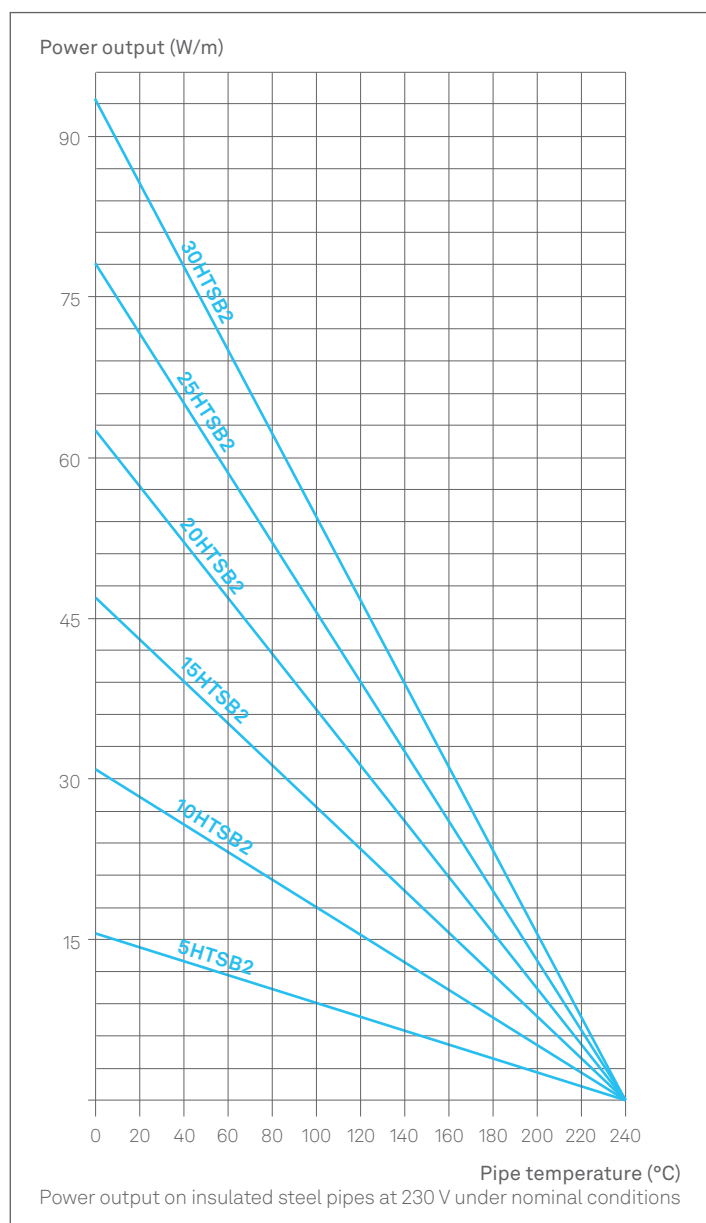
5HTSB2	15 W/m
10HTSB2	30 W/m
15HTSB2	45 W/m
20HTSB2	60 W/m
25HTSB2	75 W/m
30HTSB2	90 W/m

**Max. length of heating circuit at 230 V for automatic circuit-breakers with C characteristic**

Circuit breaker size	Start-up temperature	5HTSB2	10HTSB2	15HTSB2	20HTSB2	25HTSB2	30HTSB2
16 A	+ 10 °C	122 m	82 m	62 m	50 m	34 m	20 m
	0 °C	122 m	74 m	56 m	44 m	26 m	16 m
	- 20 °C	98 m	66 m	50 m	32 m	18 m	10 m
20 A	+ 10 °C	154 m	102 m	76 m	62 m	44 m	26 m
	0 °C	140 m	92 m	70 m	56 m	34 m	20 m
	- 20 °C	122 m	82 m	62 m	40 m	24 m	14 m
32 A	+ 10 °C	172 m	122 m	100 m	86 m	70 m	40 m
	0 °C	172 m	122 m	100 m	86 m	54 m	30 m
	- 20 °C	172 m	122 m	98 m	86 m	38 m	22 m
50 A	+ 10 °C	172 m	122 m	100 m	86 m	76 m	62 m
	0 °C	172 m	122 m	100 m	86 m	76 m	48 m
	- 20 °C	172 m	122 m	100 m	86 m	60 m	34 m

These circuit lengths may be exceeded dependat on specific design parameters.

**HTSB characteristics**



**Ordering information**

Type	Heating output	Order no.
5HTSB2-CT	15 W/m	07-584C-715F
10HTSB2-CT	30 W/m	07-584C-730F
15HTSB2-CT	45 W/m	07-584C-745F
20HTSB2-CT	60 W/m	07-584C-760F
25HTSB2-CT	75 W/m	07-584C-775F
30HTSB2-CT	90 W/m	07-584C-790F