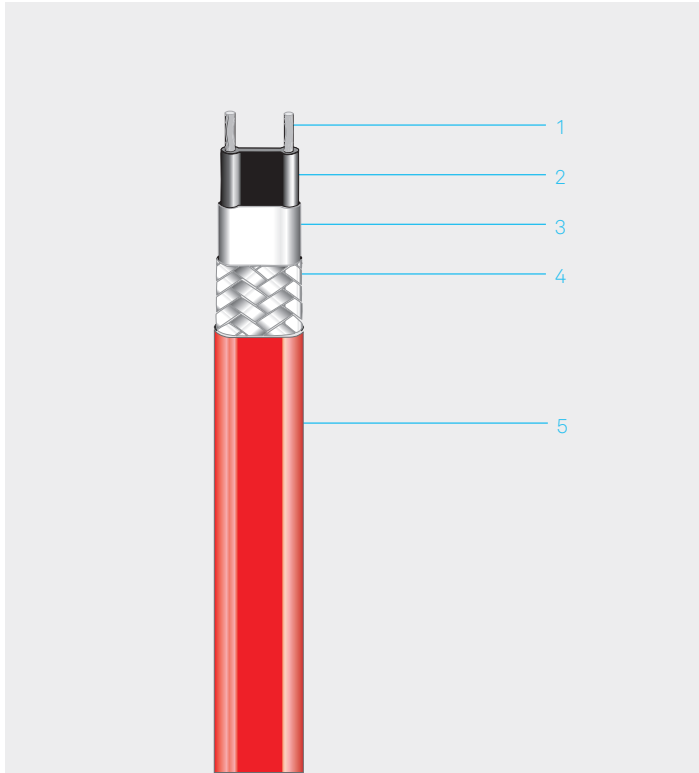


Self-regulating heating cable HSB+

High temperature, self-regulating parallel heating cable



1	Conductors: stranded copper wire, 1.3 mm ² , nickel-plated
2	Self-regulating polymer heating element
3	Insulating jacket made of high temperature fluoropolymer
4	Nickel-plated copper braiding
5	Protective jacket made of high temperature fluoropolymer

- Can be cut to length at random thanks to its parallel current supply
- Corrosion-proof and resistant to chemical attack thanks to its outer high temperature fluoropolymer protective jacket
- Simple installation thanks favourable dimensions

A temperature-dependant resistive element between two parallel copper conductors regulates and limits the power output of the heating cable. This output regulation is carried out automatically along the entire length of the heating cable according to the prevailing ambient temperature. If the ambient temperature rises, the power output of the cable is reduced. This self-regulating property prevents overheating even when the tapes are crossed. Thanks to the parallel design the heating cable can be cut to any required length. This feature considerably simplifies project planning and installation. The heating cable is cut and terminated directly on the construction site according to the circumstances. The heating system must be designed to ensure that the maximum exposure temperature of +150 °C will not be exceeded when it is energized.

Areas of application

The HSB+ heating cable is suitable for frost protecting in industrial areas. The level of its maximum possible heating output allows the heating cable to be used for maintaining high process temperatures. For questions regarding the chemical resistance please contact your BARTEC sales representative.

Explosion protection

Marking	Ⓜ II 2G Ex 60079-30-1 IIC T3 Gb Ⓜ II 2D Ex 60079-30-1 IIIC T200 °C Db
Certification	CML 21ATEX31385 IECEx CML 21.0162

Other approvals and certificates, see www.bartec.com

Technical data

Nominal voltage	AC 208 to 277 V; 120V on request
Max. exposure temperature	power on: +150 °C
Max. withstand temperature	power off: +225 °C
Min. installation temperature	-40 °C
Min. start-up temperature	-40 °C
Temperature class	T3
Dimensions with braiding and jacket	11.4 mm x 5.2 mm; with protective jacket made of high temperature fluoropolymer
Min. bending radius	35 mm

Power output at +10 °C and 230 V

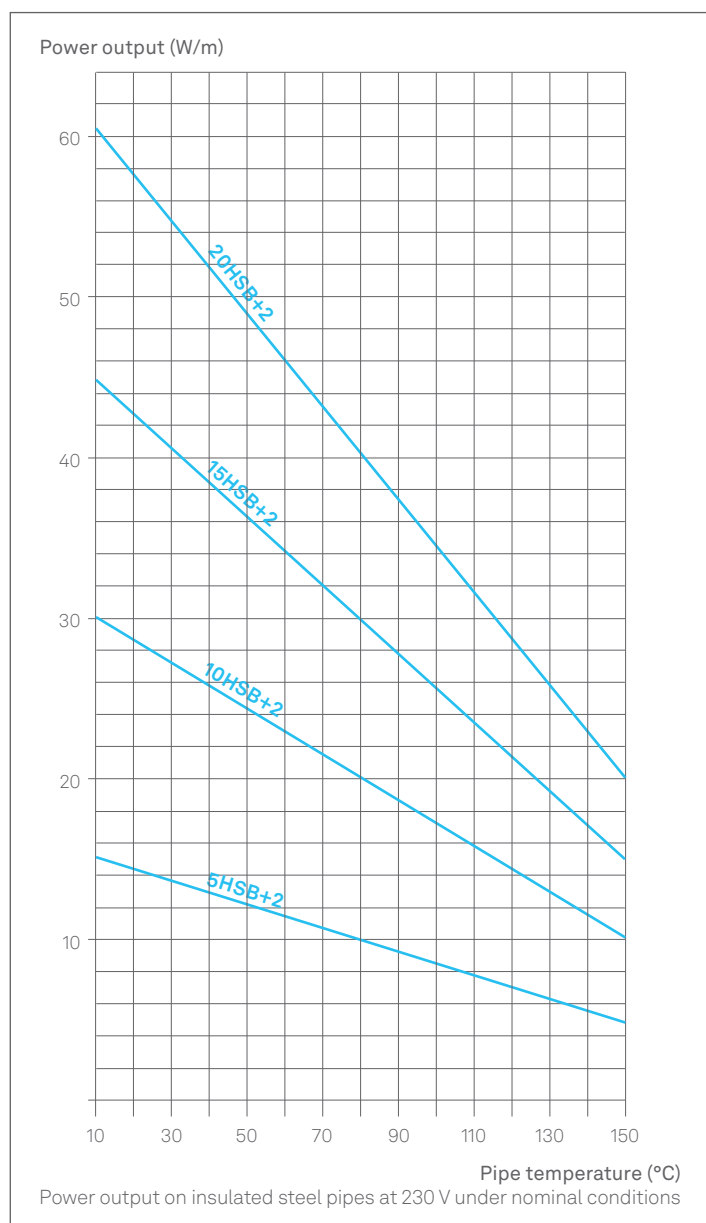
5HSB+2	15 W/m
10HSB+2	30 W/m
15HSB+2	45 W/m
20HSB+2	60 W/m

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

Circuit breaker size	Start-up temperature	5HSB+2	10HSB+2	15HSB+2	20HSB+2
16 A	+ 10 °C	122 m	82 m	62 m	50 m
	0 °C	119 m	74 m	56 m	44 m
	- 20 °C	98 m	66 m	50 m	32 m
20 A	+ 10 °C	154 m	102 m	76 m	62 m
	0 °C	140 m	92 m	70 m	56 m
	- 20 °C	122 m	82 m	62 m	40 m
32 A	+ 10 °C	172 m	122 m	100 m	86 m
	0 °C	172 m	122 m	100 m	86 m
	- 20 °C	172 m	122 m	98 m	62 m
50 A	+ 10 °C	172 m	122 m	100 m	86 m
	0 °C	172 m	122 m	100 m	86 m
	- 20 °C	172 m	122 m	100 m	86 m

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

HSB+ characteristics



Ordering information

Type	Heating output	Order no.
5HSB+2-CT	15 W/m	07-584B-715F
10HSB+2-CT	30 W/m	07-584B-730F
15HSB+2-CT	45 W/m	07-584B-745F
20HSB+2-CT	60 W/m	07-584B-760F