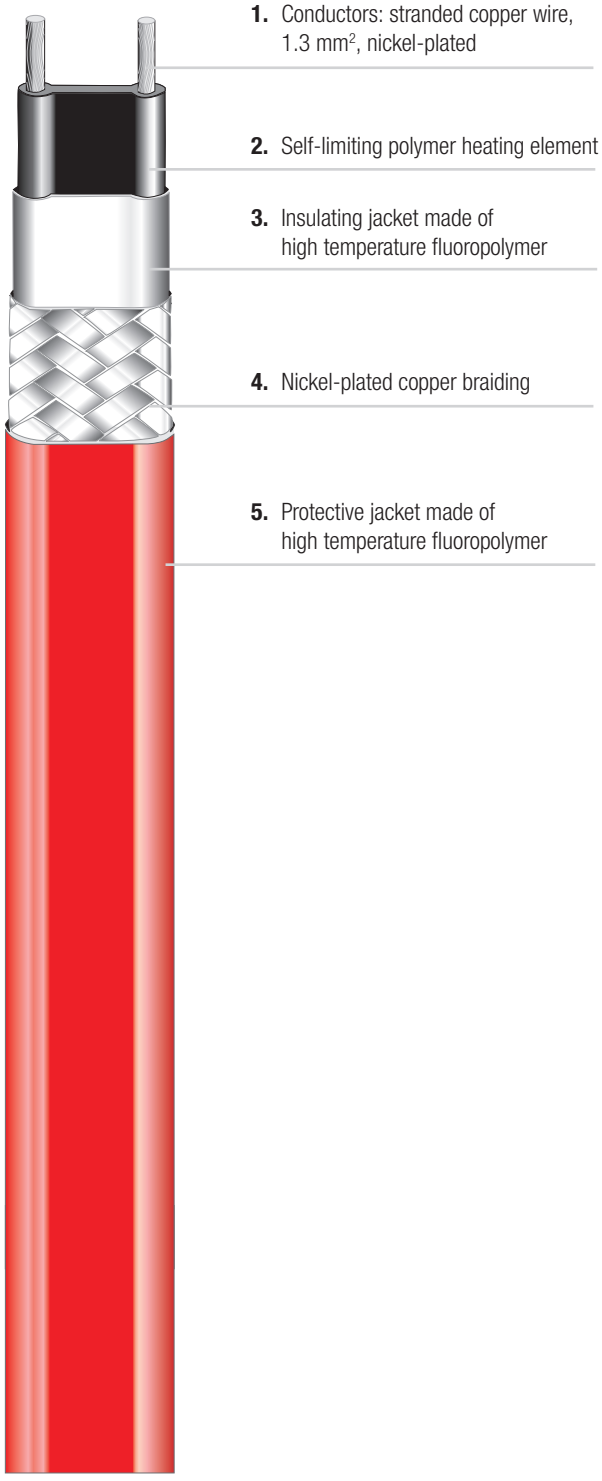
- Can be cut to length at random thanks to its parallel current supply
- Corrosion-proof and resistant to chemical attack thanks to its outer high temperature fluoropolymer protective jacket
- Simple installation thanks favourable dimensions

A temperature-dependant resistive element between two parallel copper conductors regulates and limits the power output of the heating tape. This output regulation is carried out automatically along the entire length of the heating tape according to the prevailing ambient temperature. If the ambient temperature rises, the power output of the tape is reduced. This self-limiting property prevents overheating even when the tapes are crossed. Thanks to the parallel design the heating tape can be cut to any required length. This feature considerably simplifies project planning and installation. The heating tape 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.



1. Conductors: stranded copper wire, 1.3 mm^2, nickel-plated

2. Self-limiting polymer heating element

3. Insulating jacket made of high temperature fluoropolymer

4. Nickel-plated copper braiding

5. Protective jacket made of high temperature fluoropolymer

Areas of application

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

Explosion protection

Marking	Ⓔx II 2G Ex e II T3 Gb Ⓔx II 2D Ex tb IIIC T200 °C Db
Certification	CML 19 ATEX 3033 IECEx CML 19.0008

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	40 mm

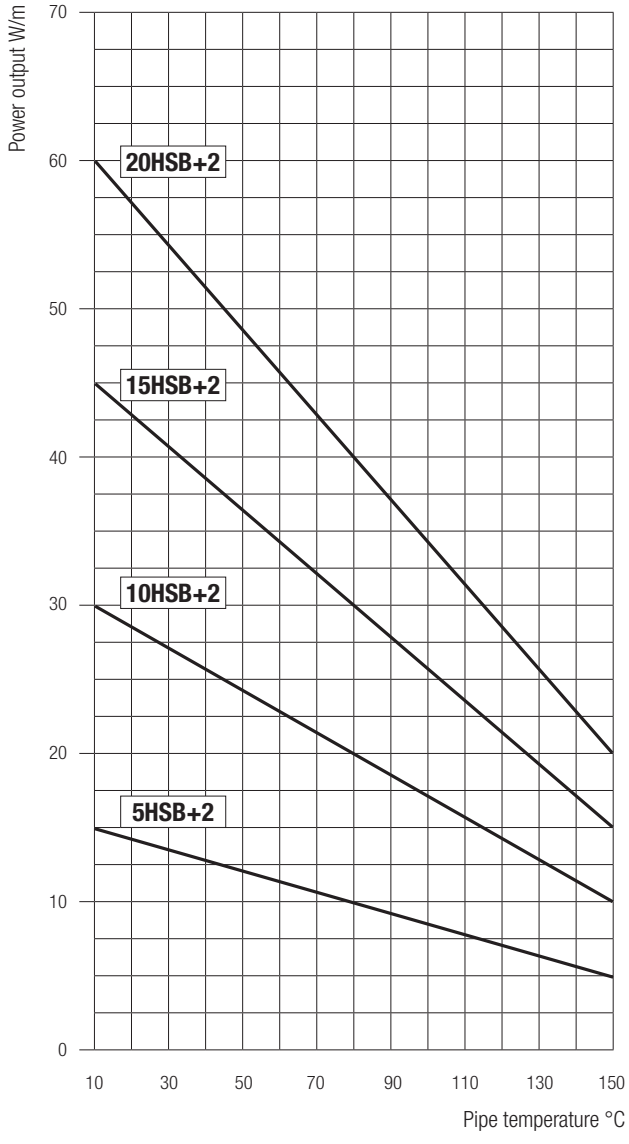
Power setting at +10 °C

Power output	5HSB+2	10HSB+2	15HSB+2
at AC 230 V	15 W/m	30 W/m	45 W/m

Power setting at +10 °C

Power output	20HSB+2
at AC 230 V	60 W/m

HSB+ characteristics



Power output on insulated steel pipes at **230 V** under nominal conditions.

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
	-40 °C	82 m	54 m	34 m	18 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
	-40 °C	101 m	68 m	44 m	24 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
	-40 °C	164 m	110 m	70 m	38 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
	-40 °C	172 m	122 m	100 m	60 m

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

Ordering information

HSB+ parallel heating tape	Typ	Heating output	Order no.
AC 230 V, self-limiting, steam purging possible Ⓔx explosion protected Ⓜ media protected	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**

Technical data subject to change without notice.