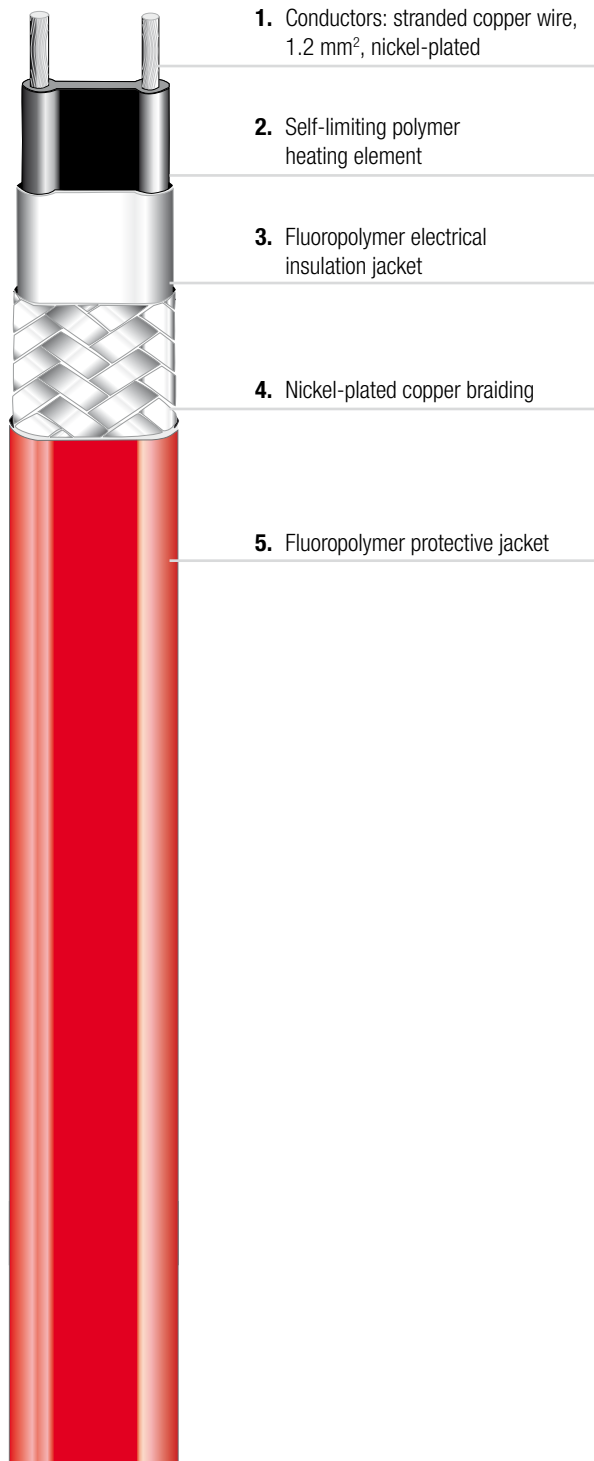


- Can be cut to length at random thanks to its parallel current supply
- Corrosion-proof and resistant to chemical attack thanks to its protective outer jacket of fluoropolymer
- Simple installation thanks favourable dimensions

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 operating temperature of +120 °C will not be exceeded when it is energized.



### 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 II 2G Ex e IIC 200 °C (T2), T3, T4 Gb  
 II 2D Ex tb IIIC T200 °C, T195 °C, T130 °C Db

Certification System KEMA 08 ATEX 0110 X  
 IECEx KEM 09.0083X  
 TC RU C-DE.ГБ06.В.00230  
 CSA 1862457

Certification Heating tape KEMA 02 ATEX 2327 U  
 IECEx KEM 07.0048 U  
 DNV E-12874

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

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**Technical data**

Nominal voltage	AC 208 V to 254 V, AC 110 V to 120 V
Max. exposure temperature	power on: +120 °C
Max. withstand temperature	power off: +200 °C
Min. installation temperature	-60 °C
Min. start-up temperature	-60 °C
Max. braid resistance	<18.2 Ω/km
Dimensions with braiding and jacket	10.2 mm x 4.8 mm with fluoropolymer protective jacket
Min. bending radius	25 mm

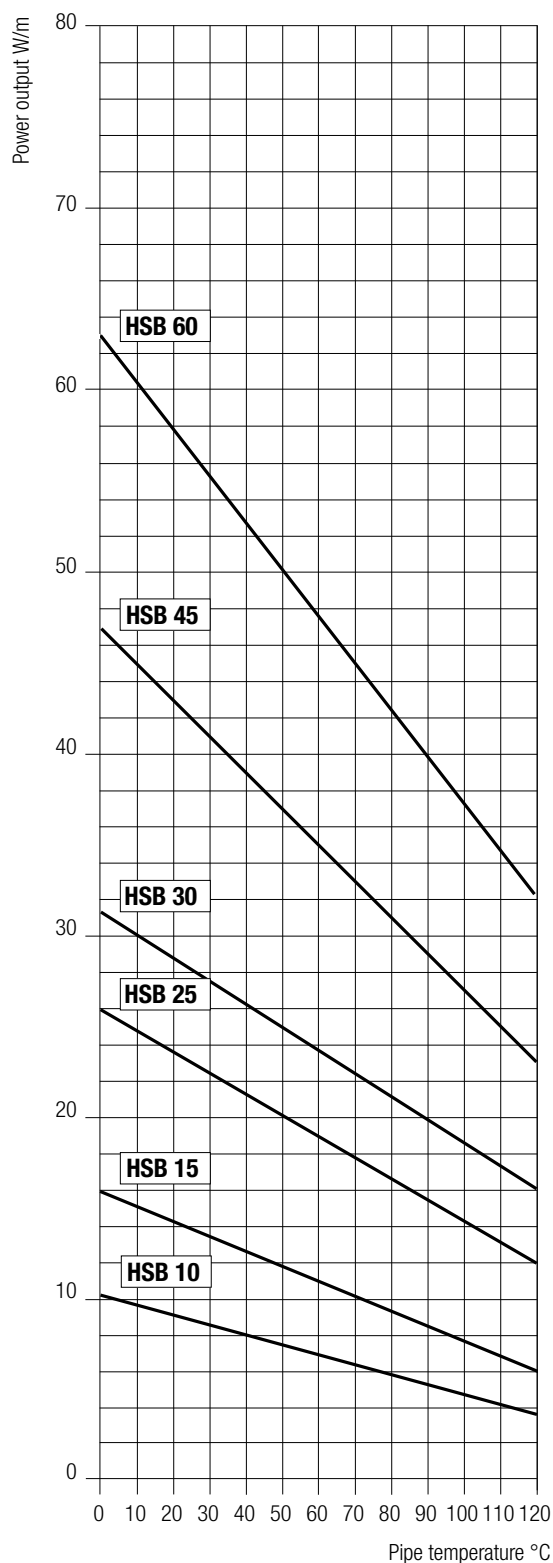
**Power setting at +10 °C**

Power output	HSB 10	HSB 15	HSB 25
at AC 230 V	10 W/m	15 W/m	25 W/m
at AC 120 V	10 W/m	15 W/m	25 W/m

Power output	HSB 30	HSB 45	HSB 60
at AC 230 V	30 W/m	45 W/m	60 W/m
at AC 120 V	30 W/m	45 W/m	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	HSB 10	HSB 15	HSB 25	HSB 30	HSB 45	HSB 60
16 A	+10 °C	200 m	165 m	120 m	85 m	70 m	50 m
	-25 °C	175 m	117 m	88 m	69 m	49 m	38 m
	-60 °C	165 m	110 m	80 m	65 m	45 m	35 m
20 A	+10 °C	235 m	189 m	140 m	114 m	82 m	64 m
	-25 °C	235 m	152 m	120 m	92 m	66 m	52 m
	-60 °C	225 m	144 m	114 m	86 m	62 m	48 m
25 A	+10 °C	235 m	189 m	140 m	114 m	82 m	64 m
	-25 °C	235 m	170 m	130 m	100 m	75 m	58 m
	-60 °C	230 m	160 m	120 m	92 m	70 m	52 m
32 A	+10 °C	235 m	189 m	140 m	114 m	82 m	64 m
	-25 °C	235 m	189 m	140 m	114 m	82 m	64 m
	-60 °C	235 m	189 m	136 m	110 m	78 m	60 m

### Max. length of heating circuit at 120 V for automatic circuit-breakers with C characteristic

Circuit breaker size	start-up temperature	HSB 10	HSB 15	HSB 25	HSB 30	HSB 45	HSB 60
16 A	+10 °C	100 m	80 m	60 m	44 m	35 m	25 m
	-25 °C	89 m	56 m	44 m	35 m	24 m	20 m
	-60 °C	82 m	52 m	40 m	32 m	22 m	17 m
20 A	+10 °C	120 m	95 m	69 m	58 m	41 m	32 m
	-25 °C	120 m	75 m	59 m	45 m	33 m	25 m
	-60 °C	120 m	75 m	55 m	41 m	26 m	21 m
25 A	+10 °C	120 m	95 m	69 m	58 m	41 m	32 m
	-25 °C	120 m	80 m	64 m	50 m	35 m	28 m
	-60 °C	120 m	80 m	60 m	45 m	32 m	26 m
32 A	+10 °C	120 m	95 m	69 m	58 m	41 m	32 m
	-25 °C	120 m	95 m	69 m	58 m	41 m	32 m
	-60 °C	120 m	95 m	69 m	58 m	41 m	32 m

### Ordering information

HSB parallel heating tape	Type	Order no.
AC 230 V, self-limiting, steam purging possible explosion protected media protected	HSB 10	<b>07-5803-210A</b>
	HSB 15	<b>07-5803-215A</b>
	HSB 25	<b>07-5803-225A</b>
	HSB 30	<b>07-5803-230A</b>
	HSB 45	<b>07-5803-245A</b>
	HSB 60	<b>07-5803-260A</b>
AC 120 V, self-limiting, steam purging possible explosion protected media protected	HSB 10	<b>07-5803-110A</b>
	HSB 15	<b>07-5803-115A</b>
	HSB 25	<b>07-5803-125A</b>
	HSB 30	<b>07-5803-130A</b>
	HSB 45	<b>07-5803-145A</b>
	HSB 60	<b>07-5803-160A</b>

Technical data subject to change without notice.