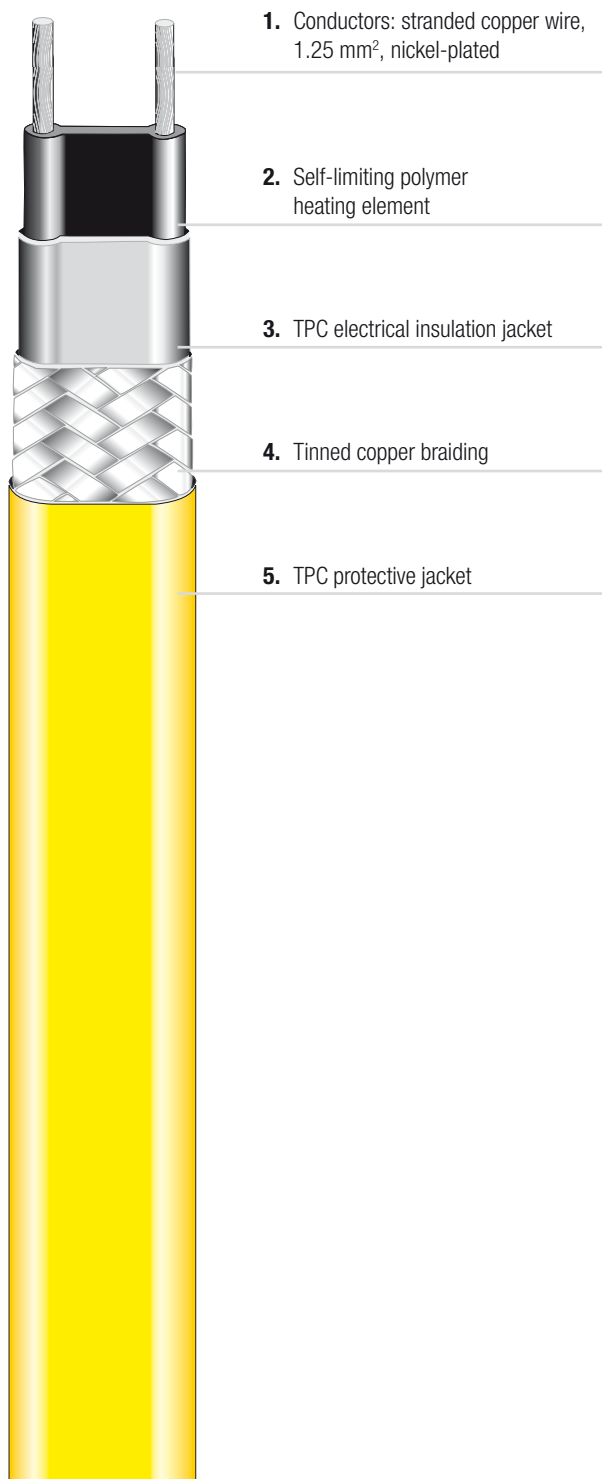


- Can be cut to length at random thanks to its parallel current supply
- Resistant to chemical influences thanks to its protective TPC protective jacket
- Simple installation thanks to its high flexibility

A temperature-dependant resistive element between two parallel copper conductors regulates and limits the heat 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. 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. If the tape will be damaged, it is not necessary to replace the whole tape. BARTEC MSB is available with different power outputs. The heating system must be designed to ensure that the maximum exposure temperature of +110 °C will not be exceeded when it is energized.



Areas of application

The MSB heating tape is suitable for electric trace heating in the industrial area and can be exposed to a temperature of up to 130 °C (power off). With the halogen-free protective jacket, the heating tape is resistant to oil, greases and most chemicals. For questions regarding the chemical resistance please contact your BARTEC sales representative.

Explosion protection

Marking	II 2G Ex e IIC T150 °C (T3), T4 Gb II 2D Ex tb IIC T150 °C, T130 °C Db
Certification system	KEMA 08 ATEX 0110 X IECEX KEM 09.0083X
Certification heating tape	DEKRA 12 ATEX 0044 U IECEX DEK 12.0004 U DNV E-12874
Other approvals and certificates, see www.bartec.de	

Technical data

Nominal voltage	AC 208 V to 254 V
Max. exposure temperature	power on +110 °C
Max. withstand temperature	power off +130 °C
Min. installation temperature	-40 °C
Min. start-up temperature	-50 °C
Max. braid resistance	<18.2 Ω/km
Dimensions with braiding and jacket	10.2 mm x 4.8 mm with TPC jacket
Min. bending radius	25 mm

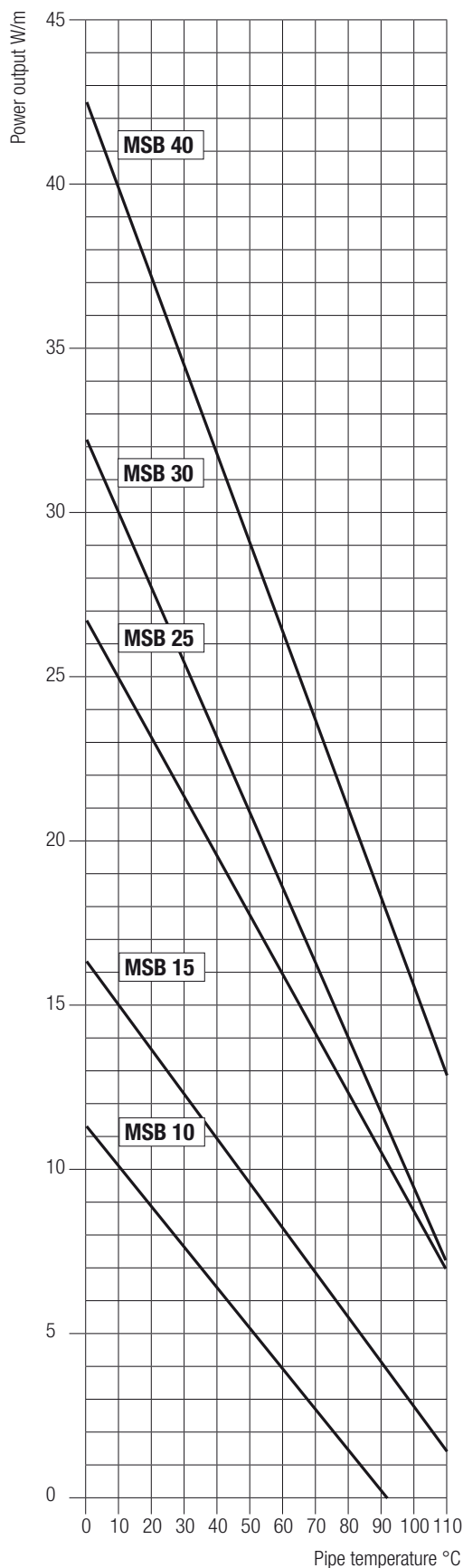
Power setting at +10 °C

Power output	MSB 10	MSB 15	MSB 25	MSB 30	MSB 40
at AC 230 V	10 W/m	15 W/m	25 W/m	30 W/m	40 W/m

Permissible ambient temperature for T class

Nominal voltage	Heating cable	max. workpiece temperature	T class
at AC 230 V	all	+110 °C	150 °C (T3)
	MSB 10	+100 °C	T4
	MSB 15	+90 °C	T4
	MSB 25	+80 °C	T4
	MSB 30	+70 °C	T4
	MSB 40	+60 °C	T4

MSB 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	MSB 10	MSB 15	MSB 25	MSB 30	MSB 40
16 A	+10 °C	200 m	165 m	120 m	85 m	70 m
	-25 °C	175 m	117 m	88 m	69 m	49 m
	-50 °C	165 m	110 m	80 m	65 m	45 m
20 A	+10 °C	235 m	189 m	140 m	114 m	82 m
	-25 °C	235 m	152 m	120 m	92 m	66 m
	-50 °C	225 m	144 m	114 m	86 m	62 m
32 A	+10 °C	235 m	189 m	140 m	114 m	82 m
	-25 °C	235 m	189 m	140 m	114 m	82 m
	-50 °C	235 m	189 m	136 m	110 m	78 m

Ordering information

MSB parallel heating tape	Type	Heating output	Order no.
AC 230 V self-limiting ⊕ explosion protected Ⓜ media protected	MSB 10	10 W/m	07-5804-210Y
	MSB 15	15 W/m	07-5804-215Y
	MSB 25	25 W/m	07-5804-225Y
	MSB 30	30 W/m	07-5804-230Y
	MSB 40	40 W/m	07-5804-240Y

Technical data subject to change without notice.