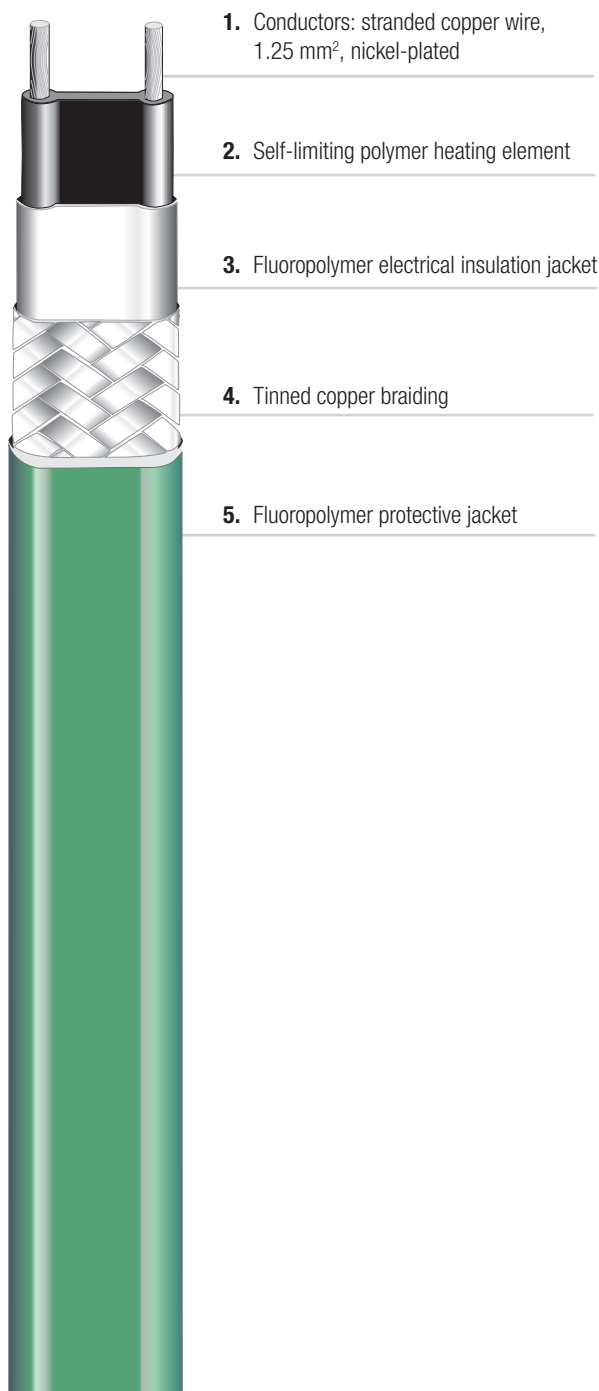


- Can be cut to length at random thanks to its parallel current supply
- Resistant to chemical influences thanks to its protective Fluoropolymer protective jacket
- Simple installation thanks to its high flexibility

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 fluoropolymer-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 60079-30-1 IIC T3, T4, T5, T6 Gb
⊕ II 2D Ex 60079-30-1 IIIC T170°C, T130°C, T95 °C, T 80 °C Db

Certification DEKRA 17ATEX0007 U
IECEx DEK 17.0004U

Other approvals and certificates, see www.bartec.de

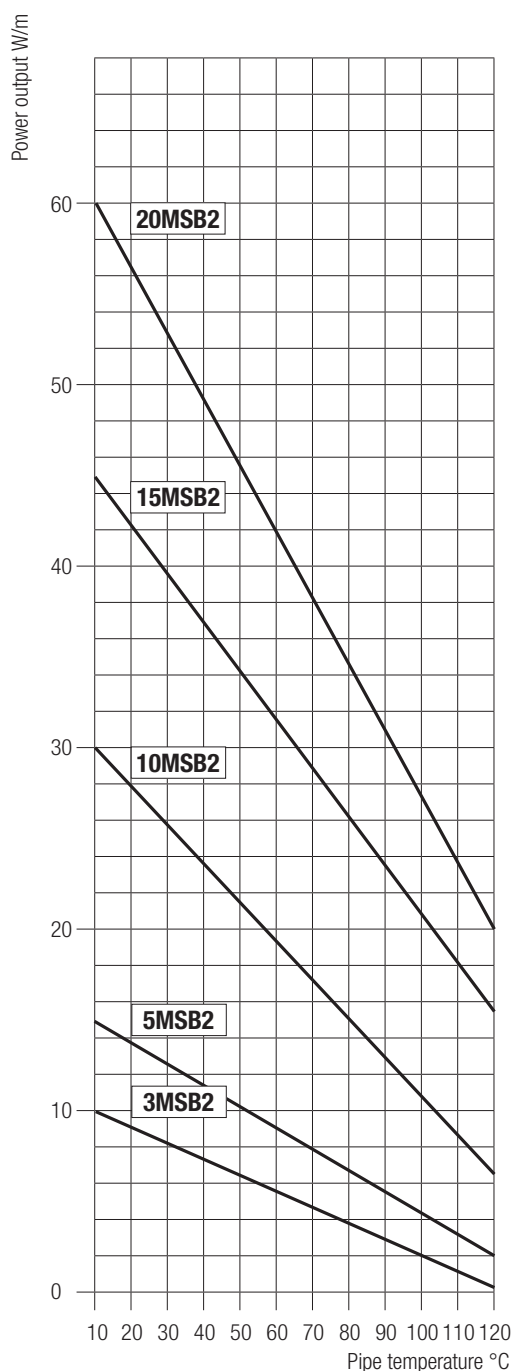
Technical data

Nominal voltage	AC 208 V bis 277 V, 120V on request
Max. continuous operating temperature, energized	+110 °C
Max. continuous exposure temperature, de-energized	+130 °C
Min. installation temperature	-60°C
Min. start-up temperature	-60°C
Temperature class	T4: 3MSB2, 5MSB2 T3: 10MSB2, 15MSB2, 20MSB2
Temperature class - System approach*	T3-T6 *stabilized Design
Max. braid resistance	<18,2 Ω/km
Dimensions with braiding and jacket	10,2 mm x 4,8 mm
Min. bending radius	25 mm

Power setting at +10 °C

Power output	3MSB2	5MSB2	10MSB2	15MSB2	20MSB2
at AC 230 V	10 W/m	15 W/m	30 W/m	45 W/m	60 W/m

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	3MSB2	5MSB2	10MSB2	15MSB2	20MSB2
16 A	+10 °C	230 m	164 m	92 m	67 m	52 m
	0 °C	217 m	155 m	87 m	64 m	49 m
	-20 °C	195 m	141 m	79 m	58 m	45 m
20 A	+10 °C	231 m	188 m	115 m	82 m	65 m
	0 °C	231 m	188 m	109 m	79 m	61 m
	-20 °C	231 m	177 m	98 m	72 m	56 m
25 A	+10 °C	231 m	188 m	133 m	82 m	75 m
	0 °C	231 m	188 m	133 m	82 m	75 m
	-20 °C	231 m	188 m	123 m	82 m	70 m
32 A	+10 °C	231 m	188 m	133 m	82 m	75 m
	0 °C	231 m	188 m	133 m	82 m	75 m
	-20 °C	231 m	188 m	133 m	82 m	75 m

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

Ordering information

MSB parallel heating tape	Type	Heating output	Order no.
AC 230 V self-limiting ⊕ explosion protected Ⓜ media protected	3MSB2-CT	10 W/m	07-5854-710F
	5MSB2-CT	15 W/m	07-5854-715F
	10MSB2-CT	30 W/m	07-5854-730F
	15MSB2-CT	45 W/m	07-5854-745F
	20MSB2-CT	60 W/m	07-5854-760F

Technical data subject to change without notice.