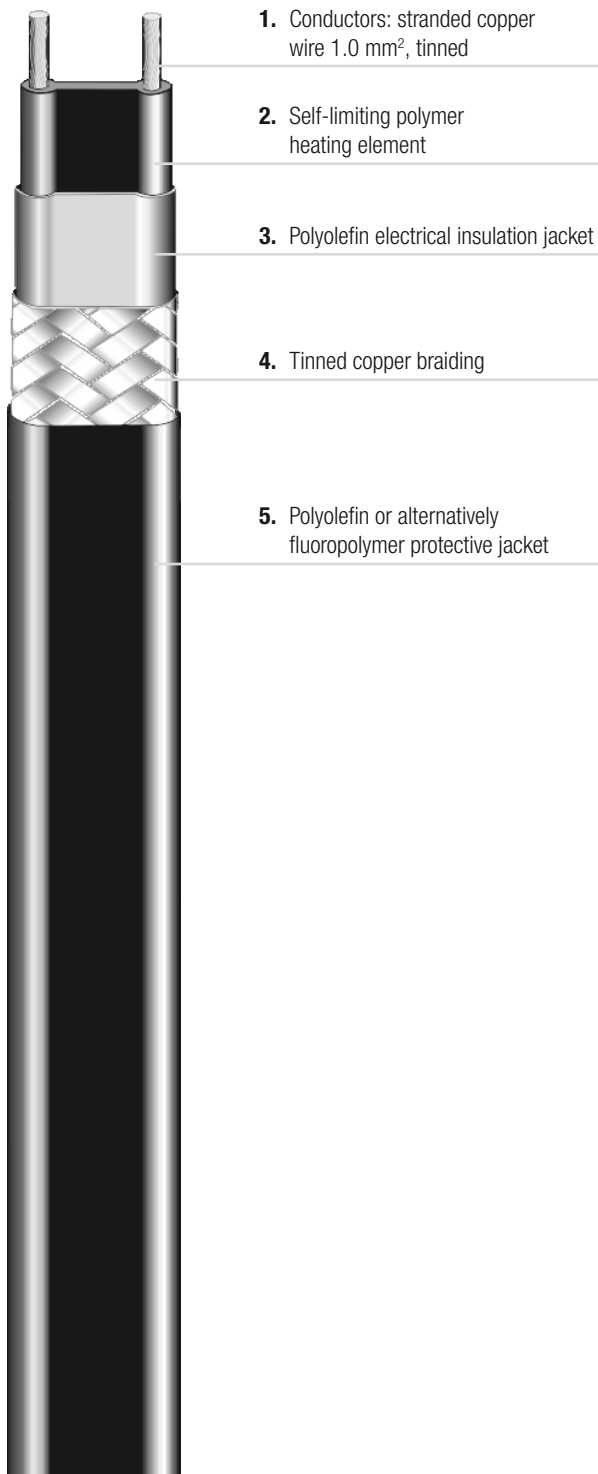


- Can be cut to any length due to the parallel current supply
- Tinned copper braiding for electrical and mechanical protection
- Easy installation due to high level of flexibility

Around two parallel positioned copper wires with a cross-section of 1 mm² an irradiated electrically conducting polymer is extruded. This electrically conducting matrix responds to changes of the ambient temperature with an increase or decrease of the heating output. A flame-retardant, UV-resistant jacket protects the braiding against humidity and offers additional protection against mechanical stress. The heating system must be designed to ensure that the maximum exposure temperature of 65 °C will not be exceeded when it is energized.



Areas of application

The PSBL heating tape is suitable for electric trace heating for frost protection of pipelines and vessels. While the polyolefin protective jacket is used where there are aqueous, inorganic chemicals, the fluoropolymer protective jacket is suitable for organic chemicals. For questions regarding the chemical resistance please contact your BARTEC sales representative.

Explosion protection

Marking	Ⓜ II 2G Ex e IIC T5 Gb Ⓜ II 2D Ex tb IIIC T95 °C Db
Certification System	KEMA 08 ATEX 0112 X IECEx KEM 09.0085X TC RU C-DE.Г506.B.00230
Certification Heating tape	KEMA 02 ATEX 2326 U IECEx KEM 07.0047 U DNV E-12874
Other approvals and certificates, see www.bartec.de	

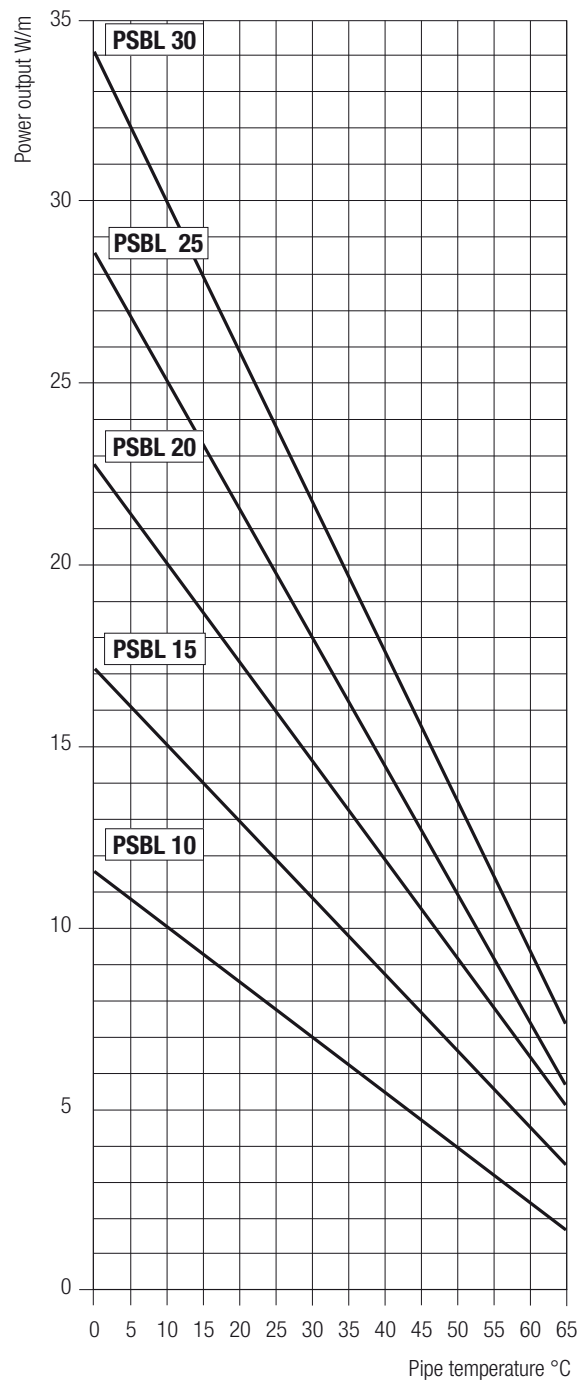
Technical data

Nominal voltage	AC 208 V to 254 V, AC 110 V to 120 V
Max. exposure temperature	power on +65 °C
Max. withstand temperature	power off +85 °C
Min. installation temperature	-55 °C
Min. start-up temperature	-30 °C
Max. braid resistance	<18.2 Ω/km
Dimensions with braiding and jacket	10.5 x 6.0 mm with polyolefin protective jacket 10.3 x 5.8 mm with fluoropolymer protective jacket
Min. bending radius	25 mm

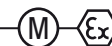
Power setting at +10 °C

Power output	PSBL 10	PSBL 15	PSBL 20	PSBL 25	PSBL 30
at AC 230 V	10 W/m	15 W/m	20 W/m	25 W/m	30 W/m
at AC 120 V	10 W/m	15 W/m	20 W/m	25 W/m	30 W/m

PSBL characteristics



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



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

Circuit breaker size	start-up temperature	PSBL 10	PSBL 15	PSBL 20	PSBL 25	PSBL 30
10 A	+10 °C	118 m	104 m	79 m	60 m	45 m
	-15 °C	90 m	69 m	49 m	39 m	24 m
	-30 °C	77 m	56 m	40 m	30 m	16 m
16 A	+10 °C	154 m	139 m	110 m	83 m	
	-15 °C	136 m	89 m	71 m	56 m	
	-30 °C	118 m	78 m	58 m	47 m	

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

Circuit breaker size	start-up temperature	PSBL 10	PSBL 15	PSBL 20	PSBL 25
10 A	+10 °C	49 m	43 m	33 m	25 m
	-15 °C	45 m	35 m	25 m	20 m
	-30 °C	39 m	28 m	20 m	15 m
16 A	+10 °C	77 m	58 m	46 m	35 m
	-15 °C	68 m	45 m	36 m	28 m
	-30 °C	59 m	39 m	29 m	24 m

Ordering information

PSBL parallel heating tape	Protective jacket	Type	Order no.
AC 230 V self-limiting Ⓜ media protected tinned copper braiding	fluoropolymer	PSBL 10	07-5807-2105
		PSBL 15	07-5807-2155
		PSBL 20	07-5807-2205
		PSBL 25	07-5807-2255
		PSBL 30	07-5807-2305
	polyolefin	PSBL 10	07-5807-2106
		PSBL 15	07-5807-2156
		PSBL 20	07-5807-2206
		PSBL 25	07-5807-2256
		PSBL 30	07-5807-2306
AC 230 V self-limiting Ⓜ explosion protected tinned copper braiding Ex marked	fluoropolymer	PSBL 10	07-5807-2108
		PSBL 15	07-5807-2158
		PSBL 20	07-5807-2208
		PSBL 25	07-5807-2258
		PSBL 30	07-5807-2308
	polyolefin	PSBL 10	07-5807-2109
		PSBL 15	07-5807-2159
		PSBL 20	07-5807-2209
		PSBL 25	07-5807-2259
		PSBL 30	07-5807-2309
AC 230 V self-limiting Ⓜ explosion protected tinned copper braiding Ex marked	fluoropolymer	PSBL 10	07-5807-1108
		PSBL 15	07-5807-1158
		PSBL 20	07-5807-1208
		PSBL 25	07-5807-1258
	polyolefin	PSBL 10	07-5807-1109
		PSBL 15	07-5807-1159
		PSBL 20	07-5807-1209
		PSBL 25	07-5807-1259
		PSBL 10	07-5807-1108
		PSBL 25	07-5807-1259

Technical data subject to change without notice.