



Features

- Self-limiting
- Can be used in explosive atmospheres without temperature limiter
- Can be cut to any length due to parallel power circuit configuration
- External protective sheath for resistance to corrosion and chemical influences
- Tin-coated copper braiding for electrical and mechanical protection
- Easy installation due to high level of flexibility
- Easy on-site cutting and terminating, with silicone cold applied technology even in Ex areas

Description

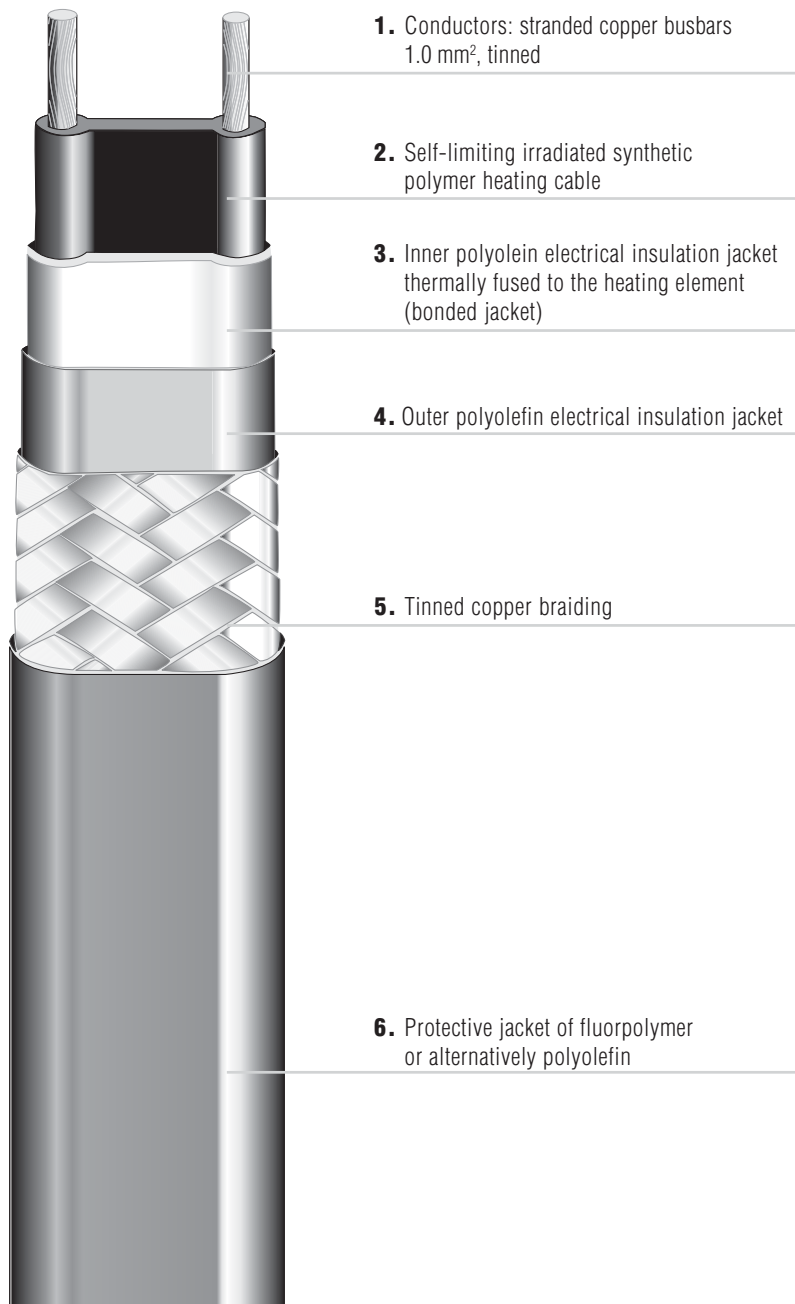
Via two tin-coated stranded copper wires with a cross-section of 1 mm² each which are positioned in parallel, an irradiated electrically conducting plastic is extruded.

This electrically conducting plastic matrix responds to changes of the ambient temperature with a respective increase or decrease of the heating output.

Electrical strength as well as protection against humidity and mechanical stress is ensured by two surrounding insulation jackets, whereas the first jacket is permanently bonded to the heating matrix (bonded jacket).

Additional electrical and mechanical protection is achieved by means of the following copper braiding.

A flame-retardant, UV-resistive plastic jacket protects the braiding against humidity and offers further protection against major mechanical stress.





Areas of application

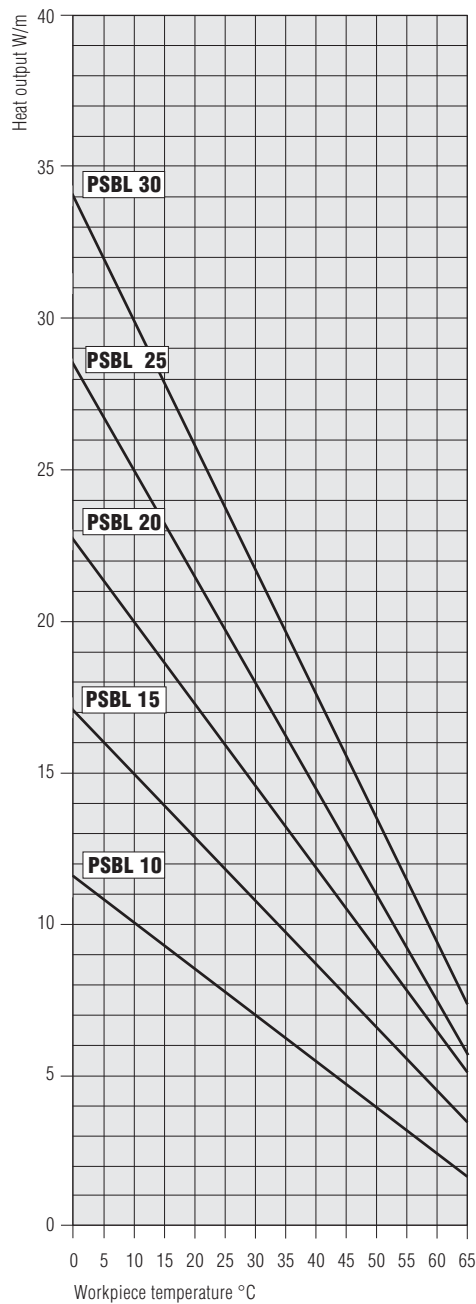
PSBL with polyolefin insulation jacket

- if the heating cable is exposed to aqueous, inorganic chemicals.
- if high mechanical requirements are set for the cable.

PSBL with fluoropolymer protective jacket

- if the heating cable is exposed to high levels of humidity organic chemicals such as hydrocarbons or solvents.
- where the cable must meet high mechanical requirements.

PSBL characteristics



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

➔ Explosion protection

Ex protection type

- ⊕ II 2G Ex e II T5, T6
- ⊕ II 2D Ex tD A21 T 95 °C, T 80 °C

Certification System

- KEMA 08 ATEX 0112
- IECEX KEM 09.0085

Certification Components

- KEMA 02 ATEX 2326 U
- IECEX KEM 07.0047 U
- CSA 1862457

➔ Technical data

Structure

- with CU braiding
- protective TFE outer jacket

Dimension

- 10.5 x 6.0 mm

Minimum bend radius

- 25 mm

Permissible ambient temperature

- Cut-in heating cable +65 °C
- Cut-off (cumulative 1000 h) +85 °C

Min. installation temperature

- 55 °C

Min. cut-in temperature

- 30 °C

Min. storage temperature

- 55 °C

■ Electrical data

Supply voltage

- AC 208 V up to 254 V
- AC 110 V up to 120 V

Protective braid resistance

- < 18.2 Ω/km



Power setting at +10 °C					
Heating 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	10.6 W/m	15.7 W/m	20.8 W/m	25.8 W/m	30.6 W/m

Max. length of heating circuit at AC 230 V for automatic circuit-breakers with C characteristic					
Fuse	PSBL 10	PSBL 15	PSBL 20	PSBL 25	PSBL 30
10 A, cut-in temperature +10 °C	118 m	104 m	79 m	60 m	45 m
10 A, cut-in temperature -15 °C	90 m	69 m	49 m	39 m	24 m
10 A, cut-in temperature -30 °C	77 m	56 m	40 m	30 m	16 m
16 A, cut-in temperature +10 °C	154 m	139 m	110 m	83 m	-
16 A, cut-in temperature -15 °C	136 m	89 m	71 m	56 m	-
16 A, cut-in temperature -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					
Fuse	PSBL 10	PSBL 15	PSBL 20	PSBL 25	PSBL 30
10 A, cut-in temperature +10 °C	49 m	43 m	33 m	25 m	25 m
10 A, cut-in temperature -15 °C	45 m	35 m	25 m	20 m	20 m
10 A, cut-in temperature -30 °C	39 m	28 m	20 m	15 m	15 m
16 A, cut-in temperature +10 °C	77 m	58 m	46 m	35 m	35 m
16 A, cut-in temperature -15 °C	68 m	45 m	36 m	28 m	28 m
16 A, cut-in temperature -30 °C	59 m	39 m	29 m	24 m	24 m



Selection chart PSBL

Description	Protective jacket	Type	➔ Order no.
PSBL parallel heating cable AC 254 V - self-limiting - media protected (M) - tinned copper braiding	fluoropolymer	PSBL 10	07-5807-2105
		PSBL 15	07-5807-2155
		PSBL 20	07-5807-2205
		PSBL 25	07-5807-2255
	polyolefin	PSBL 10	07-5807-2106
		PSBL 15	07-5807-2156
		PSBL 20	07-5807-2206
		PSBL 25	07-5807-2256
PSBL parallel heating cable AC 120 V - self-limiting - media protected (M) - tinned copper braiding	fluoropolymer	PSBL 10	07-5807-1105
		PSBL 15	07-5807-1155
		PSBL 20	07-5807-1205
		PSBL 25	07-5807-1255
		PSBL 30	07-5807-1305
	polyolefin	PSBL 10	07-5807-1106
		PSBL 15	07-5807-1156
		PSBL 20	07-5807-1206
		PSBL 25	07-5807-1256
		PSBL 30	07-5807-1306
PSBL parallel heating cable AC 254 V - self-limiting - explosion protected (Ex) - 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
PSBL parallel heating cable AC 120 V - self-limiting - explosion protected (Ex) - 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