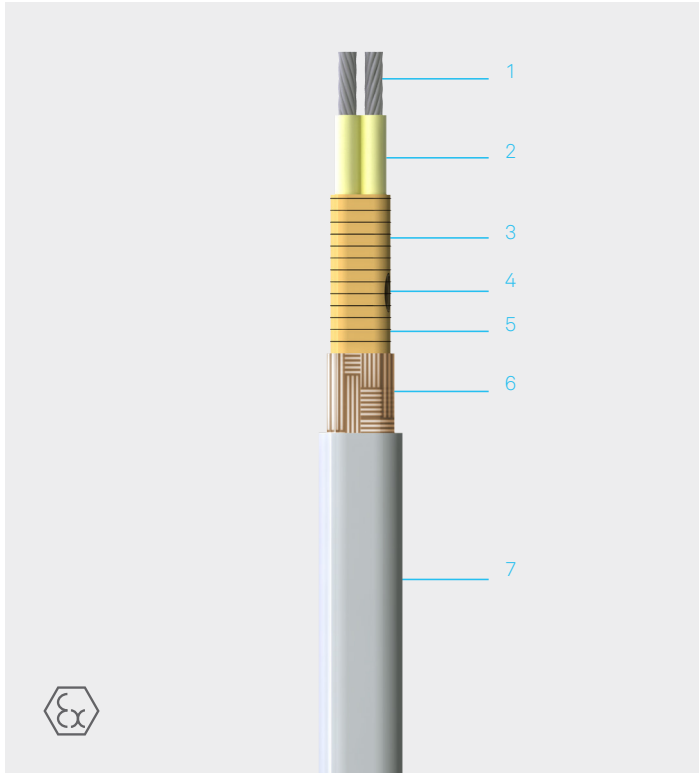


# BPL-AL

## Parallel Constant Wattage Cable



1	Conductors: stranded copper wire, 3.0 mm <sup>2</sup> , nickel-plated
2	High temperature glass fibre and mica insulation
3	Heating element
4	Parallel circuit connection
5	High temperature glass fibre and mica insulation
6	High temperature glass fibre and mica insulation
7	Aluminium outer jacket

- High withstand temperature up to 350 °C
- Can be cut to length thanks to its parallel current supply
- Jacketed in a continuous aluminum extrusion for maximum mechanical strength
- Simple installation thanks to its high flexibility and favorable dimensions

BPL-AL is a parallel resistance trace heater that can be used for freeze protection or temperature maintenance in instrument tubing, pipework, and vessels requiring high power output or high exposure temperatures of up to 500 °C.

It can be cut to length at site and can replace Mineral Insulated cables for applications where the cut to length feature is preferred. This feature considerably simplifies project engineering and installation. The trace heater is cut and terminated directly on the construction site according to the circumstances. Parallel resistance heaters formed by a coiled resistive heating element wrapped around two parallel buss wires. The distance between the contact points forms the heating zone length.

### Explosion protection

Marking	⊕ II 2 G Ex 60079-30-1 IIC T* Gb ⊕ II 2 D Ex 60079-30-1 IIC T# °C Db T* and T# see table maximum pipe/work piece temperature
Certification	CML 22ATEX3402 IECEX CML 22.0058 CSA 70144884

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

### Technical data

Nominal voltage	230V AC (277V AC), 115V AC
Max. exposure temperature	switched on +350 °C switched off +500 °C (Intermittent)
Min. operating temperature	-40 °C
Min. installation temperature	-40 °C
Dimensions	10,7 x 7,7 mm
Weight	16,5kg/100m
Min. bending radius	50 mm

### Power Output

Type	5BPL-AL	10BPL-AL	15BPL-AL	20BPL-AL
Power output	15 W/m	30 W/m	50 W/m	70W/m

### Maximum Pipe/Work piece Temperatures °C

	Area Classification Hazardous <sup>1</sup>					Safe <sup>2</sup>
	T5	T4	T3	T2	T1	
5BPL-AL	36	71	160	289	350	350
10BPL-AL	11	28	100	246	323	323
15BPL-AL	-	-	39	178	276	276
20BPL-AL	-	-	-	100	185	185

The above data is for 230 V, for 277 V applications contact factory representative.

#### Notes:

<sup>1</sup>Surface temperature limits in accordance with EN60079.

<sup>2</sup>Surface temperature limited by materials of construction (withstand temperature)

The maximum pipe and work piece temperature have to be ensured by design calculation (Stabilized design) or by temperature limiter (Controlled design)

### Power Conversion Factors

Voltage	110 V	120 V	240 V	277 V
Power output	0.91	1.09	1.09	1.45

### Zone length BPL2-A

5 BPL2-AL	1000 m
10 BPL2-AL	1000 m
15 BPL2-AL	1000 m
20 BPL2-AL	1000 m

### Zone length BPL1-A

5 BPL1-AL	1000 m
10 BPL1-AL	1000 m
15 BPL1-AL	1000 m
20 BPL1-AL	1000 m

### Max. heating circuit length 230 V - m

5 BPL2-AL	10 BPL2-AL	15 BPL2-AL	20 BPL2-AL
175	115	75	52

The above data is for 230 V, for 277 V applications contact factory representative.

### Max. heating circuit length 115 V - m

5 BPL1-AL	10 BPL1-AL	15 BPL1-AL	20 BPL1-AL
88	55	37	26

### Ordering information

BPL-AL parallel resistance heating cable	Type	Order no.
AC 230 V	5BPL2-AL	27-5875-20157000
	10BPL2-AL	27-5875-20307000
	15BPL2-AL	27-5875-20507000
	20BPL2-AL	27-5875-20707000
AC 115 V	5BPL1-AL	27-5875-10157000
	10BPL1-AL	27-5875-10307000
	15BPL1-AL	27-5875-10507000
	20BPL1-AL	27-5875-10707000