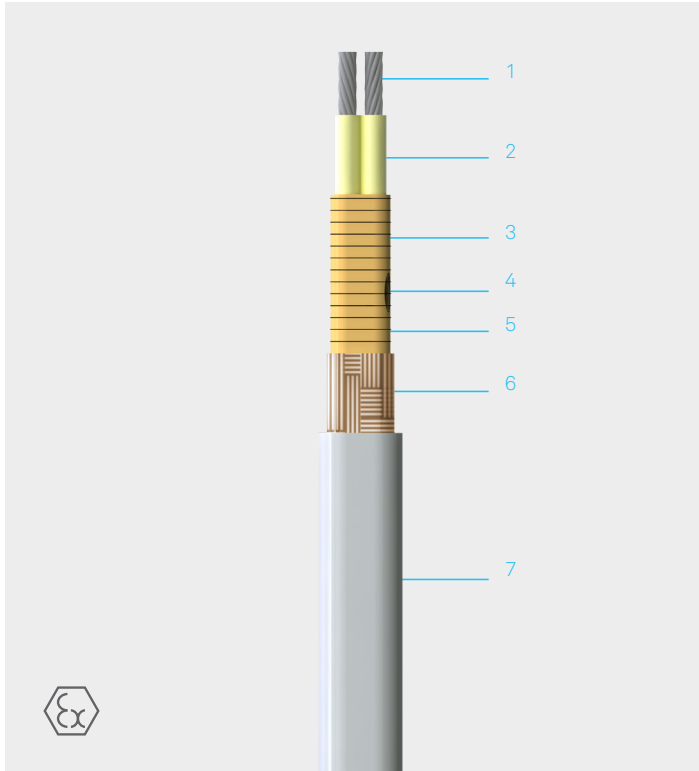


# BPL-AL

## 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	16.5 kg/100 m
Min. bending radius	50 mm

### Power Output

Type	Power output
3 BPL-AL	10 W/m
5 BPL-AL	15 W/m
10 BPL-AL	30 W/m
15 BPL-AL	50 W/m
20 BPL-AL	70 W/m
30 BPL-AL	100 W/m
45 BPL-AL	150 W/m

### Maximum Pipe/Work piece Temperatures °C

	Area Classification Hazardous <sup>1</sup>						Safe <sup>2</sup>
	T6	T5	T4	T3	T2	T1	
3 BPL-AL	34	50	100	188	290	340	340
5 BPL-AL	-	36	71	160	289	350	350
10 BPL-AL	-	11	28	100	246	323	323
15 BPL-AL	-	-	-	39	178	276	276
20 BPL-AL	-	-	-	-	100	185	185
30 BPL-AL	-	-	-	-	48	140	140
45 BPL-AL	-	-	-	-	-	36	36

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

3 BPL2-AL	1000 mm
5 BPL2-AL	1000 mm
10 BPL2-AL	1000 mm
15 BPL2-AL	1000 mm
20 BPL2-AL	1000 mm
30 BPL2-AL	1000 mm
45 BPL2-AL	1000 mm

### Zone length BPL1-A

3 BPL1-AL	1000 mm
5 BPL1-AL	1000 mm
10 BPL1-AL	1000 mm
15 BPL1-AL	1000 mm
20 BPL1-AL	1000 mm
30 BPL1-AL	1000 mm
45 BPL1-AL	1000 mm

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

3 BPL2-AL	240
5 BPL2-AL	175
10 BPL2-AL	115
15 BPL2-AL	75
20 BPL2-AL	54
30 BPL2-AL	51
45 BPL2-AL	34

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

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

3 BPL1-AL	129
5 BPL1-AL	88
10 BPL1-AL	55
15 BPL1-AL	37
20 BPL1-AL	31
30 BPL1-AL	25
45 BPL1-AL	17

### Ordering information

BPL-AL parallel resistance heating cable	Type	Order no.
AC 230 V	3 BPL2-AL	on request
	5 BPL2-AL	27-5875-20157000
	10 BPL2-AL	27-5875-20307000
	15 BPL2-AL	27-5875-20507000
	20 BPL2-AL	27-5875-20707000
	30 BPL2-AL	27-5875-21007000
	45 BPL2-AL	on request
AC 115 V	3 BPL1-AL	on request
	5 BPL1-AL	27-5875-10157000
	10 BPL1-AL	27-5875-10307000
	15 BPL1-AL	27-5875-10507000
	20 BPL1-AL	27-5875-10707000
	30 BPL1-AL	27-5875-11007000
	45 BPL1-AL	on request