BPL

High Temperature Constant Wattage Heating Cable BPL

BARTEC

Features

Outer jacket
- Aluminum.

Bus wire
- Nickel plated copper.

Minimum start-up temperature
- -40 °C (-40 °F).

Maximum exposure temperature
- 350 °C (662 °F), continuous.
- 425 °C (797 °F), intermittent.

Nominal voltage
- 110 to 120V, 208 to 277V.
- For 277V applications please contact factory.

Bending radius, minimum
- 25 mm (1 in.).

Installation temperature, minimum
- -40 °C (-40°F).

Classification
- II 2G Ex e II T* Gb
- II 2D Ex tb IIIC T* Db

Standards
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups E, F, G
- Class III.
- T1 to T3 (see table maximum pipe/work piece temperature)

Certification
- ATEX, IECEx, EAC*
- CSA 1350782 / 1352981

Warranty
- 2-year basic warranty on the heating cable.

Application
- Installation in non-hazardous and hazardous areas (Class 1, Division 2).

Maximum circuit length

Start-up temperature	Circuit breaker capacity[1] (A)	120V Maximum heating circuit length (ft.) for 5BPL1-AL	10BPL1-AL	15BPL1-AL	20BPL1-AL
10 °C (50 °F)	20	291	178	121	85
	30	291	210	162	97
	40	291	210	162	131
-18 °C (0°F)	20	275	162	108	78
	30	275	194	152	87
	40	275	194	152	124
-40 °C (-40 °F)	20	259	146	114	72
	30	259	178	145	81
	40	259	178	145	118

Start-up temperature	Circuit breaker capacity[1] (A)	240V Maximum heating circuit length (ft.) for 5BPL2-AL	10BPL2-AL	15BPL2-AL	20BPL2-AL
10 °C (50 °F)	20	567	340	246	170
	30	567	405	344	278
	40	567	405	344	278
-18 °C (0°F)	20	550	324	229	164
	30	550	388	328	262
	40	550	388	328	262
-40 °C (-40 °F)	20	518	307	213	147
	30	518	372	311	255
	40	518	372	311	255

Start-up temperature	Circuit breaker capacity[1] (A)	208V Maximum heating circuit length (ft.) for 5BPL2-AL	10BPL2-AL	15BPL2-AL	20BPL2-AL
10 °C (50 °F)	20	518	324	194	146
	30	518	356	275	227
	40	518	356	275	227
-18 °C (0°F)	20	502	308	185	136
	30	502	340	266	217
	40	502	340	266	217
-40 °C (-40 °F)	20	470	292	178	130
	30	470	324	259	211
	40	470	324	259	211

Start-up temperature	Circuit breaker capacity[1] (A)	277V Maximum heating circuit length (ft.) for 5BPL2-AL	10BPL2-AL	15BPL2-AL	20BPL2-AL
10 °C (50 °F)	20	639	328	203	147
	30	639	442	321	229
	40	639	442	344	301
-18 °C (0°F)	20	623	311	193	144
	30	623	426	308	223
	40	623	426	328	288
-40 °C (-40 °F)	20	606	314	190	138
	30	606	410	301	216
	40	606	410	311	282

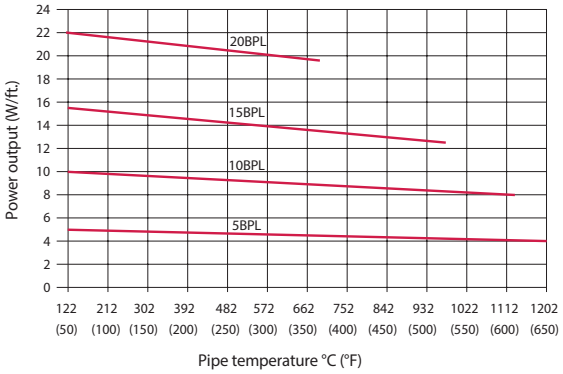
[1] Breaker sizing should be based on the National Electrical Code, Canadian Electrical Code or any other applicable code. The NEC and CEC require ground-fault protection of equipment for each branch circuit supplying electric heating equipment. Check local codes for ground-fault protection requirements.

Power conversion factors	Power output
110V	0.84
208V	0.75
277V	1.33

Zone length BPL1-AL	in.	mm
5BPL1-AL	31.5	800
10BPL1-AL	27.6	700
15BPL1-AL	24.6	625
20BPL1-AL	19.7	500

Zone length BPL2-AL	in.	mm
5BPL2-AL	48.0	1220
10BPL2-AL	35.4	900
15BPL2-AL	29.9	760
20BPL2-AL	25.6	650

Power temperature curves 120V and 240V



Max. pipe/work piece temperatures (120V or 240V)[1]

Product #	W/m	Area classification hazardous[2] T3 °C	T3 °F	T2 °C	T2 °F	T1 °C	T1 °F	Safe[3] °C	Safe[3] °F
5BPL-AL	15	160	320	289	552	350	662	350	662
10BPL-AL	30	100	212	246	475	323	613	323	613
15BPL-AL	50	30	86	178	352	276	529	276	529
20BPL-AL	70	-	-	80	176	185	365	185	365

[1] For 277 V applications contact factory representative
[2] Surface temperature limits in accordance with EN60079
[3] Surface temperature limited by materials of construction (maximum exposure temperature, intermittent)

Models

Nominal output W/ft.	Product # 120V	240V	Nominal output W/ft.	Product # 208V	Price/ft.	Cable dimension approx. (mm)
5	5BPL1-AL	5BPL2-AL	4	5BPL2-AL		10.7 x 7.7
10	10BPL1-AL	10BPL2-AL	7.5	10BPL2-AL		10.7 x 7.7
17	15BPL1-AL	15BPL2-AL	12.5	15BPL2-AL		10.7 x 7.7
22	20BPL1-AL	20BPL2-AL	17.5	20BPL2-AL		10.7 x 7.7

When ordering, the quantity on the purchase order is equal to the length in feet of the cable required.
E.g.: To order a 500 ft., cable, write 500 for quantity with product code.

Accessories

See Accessories section.