POWER TRACE
Self-Regulating Heating Cable (PT)

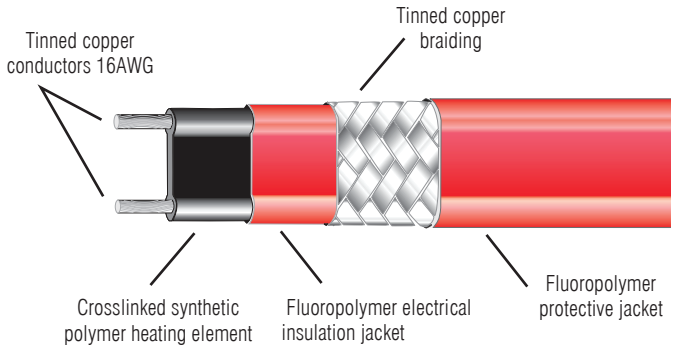
COMMERCIAL INDUSTRIAL

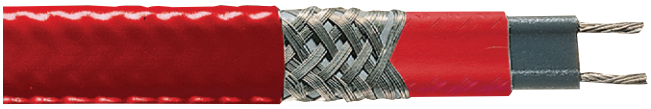
DESCRIPTION

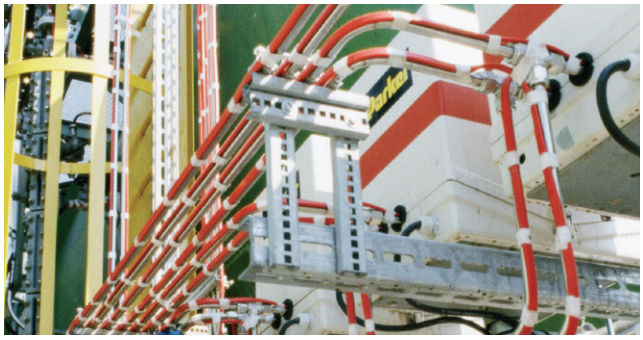
The Power Trace (PT) system is ideal for frost protection, maintaining temperature and heat-up in pipes, tanks, vessels or at surfaces in non-ex areas and in explosive atmospheres for process industry. The system is easy to design and install utilizing the required connection kits. The cable can be cut to length at the job site and installed directly on pipes simplifying the installation process and reducing waste.

Heating power increases or decreases depending on the ambient temperature. Self-regulation takes effect at every point along the heating cable. Insulation of fluoropolymer provides excellent resistance and in connection with the outer jacket offers exceptional resistance to chemical effects, moisture, abrasions and corrosion.

CABLE CONSTRUCTION







FEATURES

- Can be used in hazardous locations, for high temperatures and chemical resistance (Class I, Div. 2).
- Suitable for steam cleaning.
- Corrosion-proof and resistant to effects of chemicals.
- Can be cut to random length with its parallel circuit configuration.
- Self-regulating cable will not self-destruct by overheating.
- Simple installation with high flexibility and favourable dimensions.

CERTIFICATIONS

CAN/CSA-C22.2 No. 130-03

1862457; Class: 2878-01, 2878-81
Class: 2872-01, 2872-81

BARTEC | Made in Germany

SPECIFICATIONS

Voltage	Available from 120V to 240V.
Protection type/ certifications	Class I, Div. 2, Groups A, B, C, D Class II, Div. 2, Groups E, F, G Class III
Max. resistance of protective braid	< 18.2 Ω/km.
Installation temperature	Min. installation temperature: -60 °C. Min. switched on temperature: -60 °C.
Operating temperature	Max. operating temperature switched off: max. 190 °C (1000 hrs. cumulative). Max. operating temperature switched on: max. 120 °C.
Cable dimension	10.2 mm x 4.8 mm.
Min. bending radius	1" (25 mm).

INSTALLATION

Consult factory for Class I, II & III locations, installation and application instructions. Electrical connection of the heating system and thermostat should be done only by a qualified electrician.

CONNECTION KITS

Britech connection kits must be used with PT heating cables.
- BRI-PEK-PT power connection and end seal kit.
- BRI-TSP-1 T-splice and end seal kit.

WARRANTY

Warranted free from manufacturers defect for 5 years.
Visit www.britech.ca for limited warranty details.

MAX. HEATING CIRCUIT LENGTH AT 120V (m)

PRODUCT #	START-UP TEMPERATURE	CIRCUIT BREAKER CAPACITY[1] 15A	30A	40A
PT110-1560P	10 °C (50 °F)	100	120	120
	-15 °C (5 °F)	90	120	120
	-30 °C (-22 °F)	86	120	120
PT115-1560P	10 °C (50 °F)	80	95	95
	-15 °C (5 °F)	65	95	95
	-30 °C (-22 °F)	56	95	95
PT120-1560P	10 °C (50 °F)	65	80	80
	-15 °C (5 °F)	54	80	80
	-30 °C (-22 °F)	48	80	80
PT125-1560P	10 °C (50 °F)	50	69	69
	-15 °C (5 °F)	45	69	69
	-30 °C (-22 °F)	42	69	69
PT135-1560P	10 °C (50 °F)	42	58	58
	-15 °C (5 °F)	37	58	58
	-30 °C (-22 °F)	35	58	58
PT145-1560P	10 °C (50 °F)	30	41	41
	-15 °C (5 °F)	27	41	41
	-30 °C (-22 °F)	24	41	41
PT160-1560P	10 °C (50 °F)	23	32	32
	-15 °C (5 °F)	20	32	32
	-30 °C (-22 °F)	19	32	32

MAX. HEATING CIRCUIT LENGTH AT 208V (m)

PRODUCT #	START-UP TEMPERATURE	CIRCUIT BREAKER CAPACITY[1] 15A	30A	40A
PT210-1560P	10 °C (50 °F)	175	210	210
	-15 °C (5 °F)	158	210	210
	-30 °C (-22 °F)	146	210	210
PT215-1560P	10 °C (50 °F)	140	165	165
	-15 °C (5 °F)	125	161	165
	-30 °C (-22 °F)	120	158	165
PT220-1560P	10 °C (50 °F)	110	160	160
	-15 °C (5 °F)	100	160	160
	-30 °C (-22 °F)	92	160	160
PT225-1560P	10 °C (50 °F)	87	140	140
	-15 °C (5 °F)	77	140	140
	-30 °C (-22 °F)	73	140	140
PT230-1560P	10 °C (50 °F)	72	114	114
	-15 °C (5 °F)	65	114	114
	-30 °C (-22 °F)	62	114	114
PT245-1560P	10 °C (50 °F)	52	82	82
	-15 °C (5 °F)	47	82	82
	-30 °C (-22 °F)	45	82	64
PT260-1560P	10 °C (50 °F)	40	64	64
	-15 °C (5 °F)	36	64	64
	-30 °C (-22 °F)	34	64	64

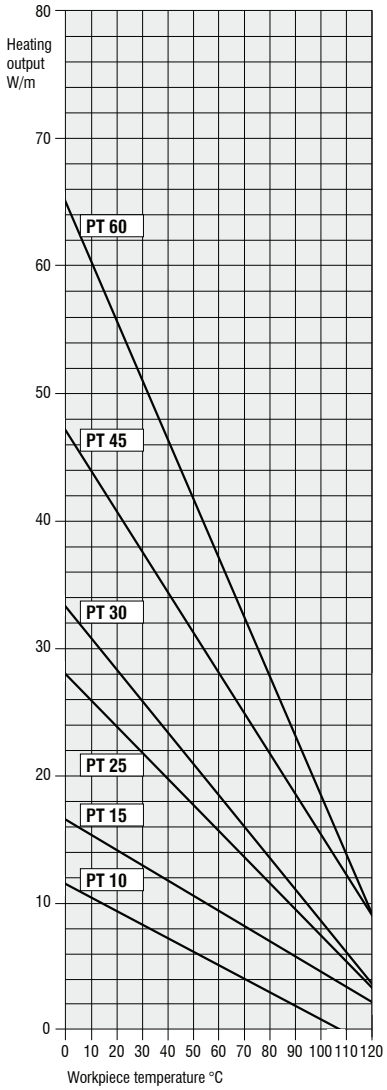
MAX. HEATING CIRCUIT LENGTH AT 240V (m)

PRODUCT #	START-UP TEMPERATURE	CIRCUIT BREAKER CAPACITY[1] 15A	30A	40A
PT210-1560P	10 °C (50 °F)	200	235	235
	-15 °C (5 °F)	181	235	235
	-30 °C (-22 °F)	175	235	235
PT215-1560P	10 °C (50 °F)	162	189	189
	-15 °C (5 °F)	124	189	189
	-30 °C (-22 °F)	117	189	189
PT220-1560P	10 °C (50 °F)	130	160	160
	-15 °C (5 °F)	110	160	160
	-30 °C (-22 °F)	100	160	160
PT225-1560P	10 °C (50 °F)	100	140	140
	-15 °C (5 °F)	89	140	140
	-30 °C (-22 °F)	83	140	140
PT230-1560P	10 °C (50 °F)	82	114	114
	-15 °C (5 °F)	71	114	114
	-30 °C (-22 °F)	69	114	114
PT245-1560P	10 °C (50 °F)	60	82	82
	-15 °C (5 °F)	52	82	82
	-30 °C (-22 °F)	49	82	64
PT260-1560P	10 °C (50 °F)	45	64	64
	-15 °C (5 °F)	40	64	64
	-30 °C (-22 °F)	49	64	64

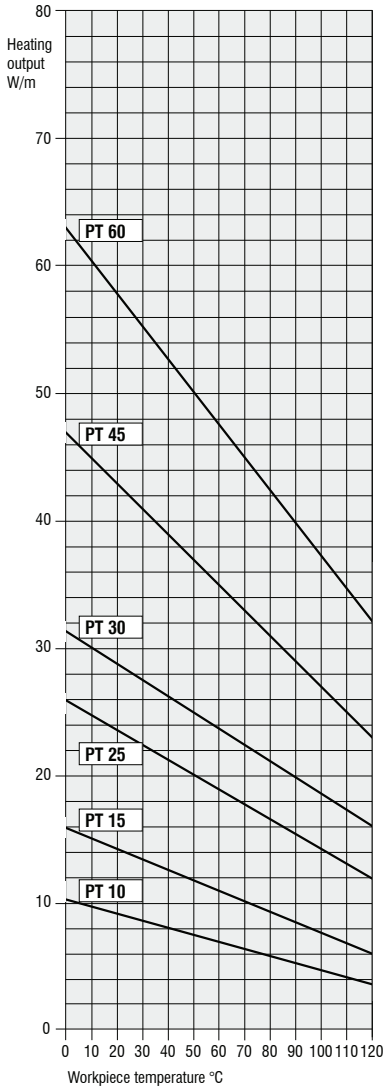
Max. circuit length (m) for use with type C circuit breakers to IEC 60898.
To calculate circuit length in ft. multiply by 3.28.

Heating cable installed and measured on a pipe in accordance with VDE 0254, EN 62395-1 accept for IEC / EN 62086-1 and IEC 60079-30-1.

Heating output at 120V



Heating output at 240V



[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.

MODELS

120V	208V	240V
PT110-1560P (3W/ft.)	PT210-1560P (2.5W/ft.)	PT210-1560P (3W/ft.)
PT115-1560P (5W/ft.)	PT215-1560P (4W/ft.)	PT215-1560P (5W/ft.)
PT120-1560P (6W/ft.)	PT220-1560P (5W/ft.)	PT220-1560P (6W/ft.)
PT125-1560P (8W/ft.)	PT225-1560P (6.5W/ft.)	PT225-1560P (8W/ft.)
PT130-1560P (11W/ft.)	PT230-1560P (8W/ft.)	PT230-1560P (9W/ft.)
PT145-1560P (14W/ft.)	PT245-1560P (12W/ft.)	PT245-1560P (14W/ft.)
PT160-1560P (18W/ft.)	PT260-1560P (16W/ft.)	PT260-1560P (18W/ft.)