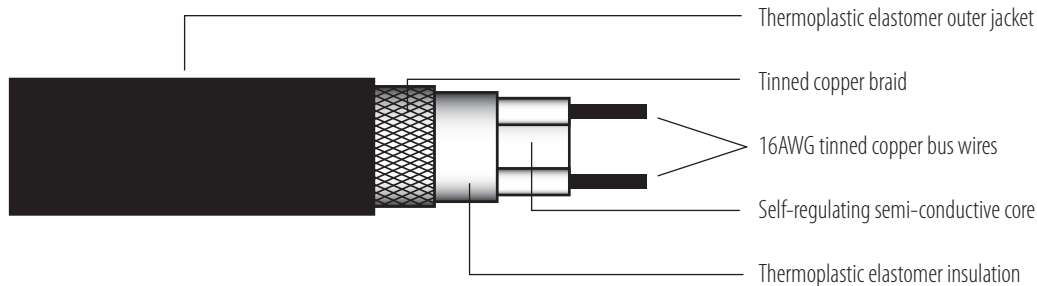


Technical sheet



Self-regulating Heating Cables

PTPR081/082P3R (8W/ft) – PTPR101/102P3R (10W/ft) – PTPR121/122P3R (12W/ft)



Features

- Energy efficient; automatically varies its power output in response to pipe or ambient temperature changes, so a thermostat may not be necessary in some applications.
- Easy to install; can be cut to any length (up to max circuit length).
- No risk of overheating or burning out even overlapped.
- Suitable for use in wet and non-hazardous environment. The UV stabilized thermoplastic elastomer outer jacket is resistant to water and inorganic chemicals. It protects against UV rays (sun), abrasion and impact damage.

Applications

The PTPR cable is a cULus listed self-regulating heating cable designed for a variety of applications:

- Plastic or metal pipe freeze protection and flow maintenance of pipes, tanks and valves.
- Roof and gutter de-icing.

Dimensions and weight

Type	Dimension	Min. bending radius	Weight (kg/100 m)
PTPRXXXP3R	12.6 × 6.0 mm	36 mm	13.8

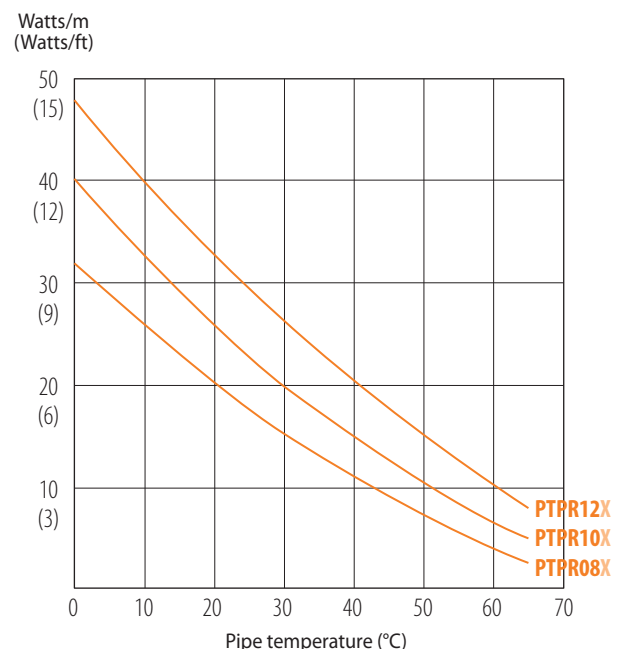
Technical data

Service voltage	110-120V, 208-277V
Maximum maintain or continuous exposure temperature (power on)	+65 °C (149 °F)
Maximum intermittent exposure temperature, 1000 hours (power on or off)	+85 °C (185 °F)
Minimum installation temperature	-40 °C (-40 °F)
Protective braid resistance	< 18.2Ω/km
Bus wire gauge	16AWG

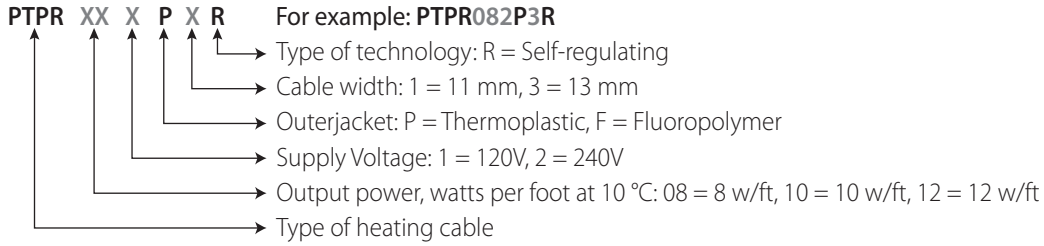


Power output curves

Nominal power output at 240V when PTPRXXXP3R cable installed on insulated metal.



Product ordering information



Maximum length (ft) vs circuit breaker size

Minimum start-up temperature	Amps	PTPR081P3R PTPR082P3R (8W/ft)		PTPR101P3R PTPR102P3R (10W/ft)		PTPR121P3R PTPR122P3R (12W/ft)	
		120V ft	240V ft	120V ft	240V ft	120V ft	240V ft
10 °C (50 °F)	10	123	246	75	147	55	111
	15	177	354	121	242	90	183
	20	200	406	150	295	115	229
	30	210	420	155	315	115	229
	40	210	420	180	360	120	240
0 °C (32 °F)	10	100	203	55	111	40	78
	15	145	291	85	177	60	124
	20	180	360	105	216	80	160
	30	180	360	120	246	90	180
	40	180	360	155	315	105	210
-20 °C (-4 °F)	10	54	108	45	85	30	59
	15	90	183	65	131	45	91
	20	115	229	80	164	60	124
	30	175	350	105	215	80	158
	40	175	350	105	215	80	158
-40 °C (-40 °F)	10	52	104	35	68	25	49
	15	82	164	55	114	45	85
	20	103	206	70	141	50	98
	30	135	275	85	170	60	120
	40	160	320	105	215	80	158

240V PTPRXXXP3R

208V-277V adjustment factor		
Voltage/Model	Power output	Circuit length
208V		
PTPR082P3R	0.89	0.92
PTPR102P3R	0.89	0.92
PTPR122P3R	0.89	0.92
277V		
PTPR082P3R	1.08	1.11
PTPR102P3R	1.08	1.11
PTPR122P3R	1.08	1.11

Pr*tecTHERM components

- Power connection kit (PT-PCK)
- End seal kit (PT-TESK)
- Power and end seal kit (PT-PC-TESK)
- Splice tee connection kit (PT-STK)