

EasyHeat™ PSR Cable

Pipe Freeze Protection, Self-Regulating, Pre-Terminated. For Residential and Commercial Applications.

Product Overview

- PSR is a parallel resistance, self-regulating cable provided in pre-terminated lengths with factory sealed connections.
- The self-regulating heating cable automatically varies its heat output as the surrounding temperature changes.

Applications

- Commercial and residential plastic or metal water supply and drain pipes subject to freezing.
- Suitable for refrigeration/HVAC condensation lines that are subject to freezing temperatures.
- Residential fuel lines.

Features

- 120 Vac and 240 Vac models available.
 - 120 Vac models have an integral three-wire plug with a pilot light.
 - 240 Vac models have a three wire pigtail.
- Cables are rated at 5 Watts per foot (0.30 m) at +50 °F (+10 °C).
- Pre-terminated lengths from 6 ft – 100 ft (1.83 m – 30.48 m).
- Manufactured with a waterproof TPE outer jacket.
- One year limited warranty.

Heating Cable Control Options and Power Connection

- 120 Vac cables should be plugged into a ground fault protected electrical receptacle.
- 240 Vac cables are designed to be directly connected into an appropriate electrical outlet box supplied by ground fault protected circuit.

Related Products

- It is recommended that a remote thermostat similar to EasyHeat model C3RC be used for 240 Vac cables to reduce energy consumption and extend the life of the cable. See *EasyHeat Pipe Tracing Controls*.

Accessories

- Installation tape and caution labels are available. See *EasyHeat Pipe Tracing Accessories*.



Certifications

- UL Listed to Canadian Safety Standards and CSA Certified for ordinary locations.

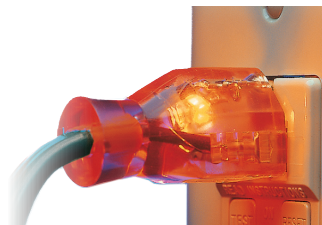
Notes

- Per NEC and CEC requirements ALWAYS use a ground fault protection device (GFEP) to reduce the danger of fire from a damaged or improperly installed heating cable. Electrical fault currents caused by damaged or improperly installed cable MAY NOT BE LARGE ENOUGH to trip a conventional circuit breaker.
- Heating cables must be installed in compliance with all national, state/provincial and local codes. Check with your local electrical inspector for specific details.
- Do not use thin 1/8 in (3.18 mm) foil-backed foam insulation.
- Before insulating, ensure that there is no damage to heating cables. Immediately cover the pipe, cables, connections, valves and spigots with 1/2 in (12.7 mm) to 1 in (25.4 mm) thick fiberglass insulation or equivalent.
- Do not alter the length of the heating cable — cable is factory sealed and alteration will result in risk of electrical fire or shock.
- Exposure to temperatures above +150 °F (+66 °C). will shorten the life of your cable. Before installing on hot water pipes, set the water heater thermostat below +150 °F (+66 °C).
- If more than one heating cable is used on a single electrical circuit please refer to the maximum heater length per circuit breaker size chart. Check to make sure the total heating cable length does not exceed the length specified in this table.
- Minimum installation temperature for the heating cable set is -22 °F (-30 °C).
- Do not use extension cords.

Illustrated Features

Pilot Light

120 Vac models have a pilot light in the PSR plug, assures the system has power.



Three Wire Pigtail

240 Vac models have a three wire pigtail that should be directly connected into an appropriate electrical box supplied by ground fault protected circuit.



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How To Determine The Length of Cable You Need

Select the appropriate cable length from one of the two charts below. Cable may be up to 2 ft (60.96 cm) shorter than the pipe. Lengths insert the non-breaking space here (control+alt+X) so that Lengths stays with assume. Lowest ambient temperature is -20 °F (-29 °C), with a minimum of 1/2 in (12.7 mm) fiberglass insulation or equivalent. For protection to -40 °F (-40 °C), use 1 in (25.4 mm) fiberglass insulation.

Cable Length Selection Chart

Metal Pipe ft (m)										
Pipe Diameter in (mm)	3 (0.91)	4-6 (1.2-1.83)	7 (2.13)	8-12 (2.44-3.66)	13-14 (3.96-4.27)	15-18 (4.57-5.49)	19-25 (5.79-7.62)	26-50 (7.92-15.24)	51-75 (15.54-22.86)	76-100 (21.16-30.48)
0.5 (12.7)	—	A	A	B	B	C	C	E	F	G
1.0 (25.4)	A	A	A	B	B	C	C	E	F	G
1.5 (38.1)	A	A	A	B	B	C	D	E	F	G
2.0 (50.8)	A	B	B	C	C	D	E	F	G	H
2.5 (63.5)	A	B	B	C	C	D	E	F	G	H

Plastic Pipe ft (m)										
Pipe Diameter in (mm)	3 (0.91)	4-6 (1.2-1.83)	7 (2.13)	8-12 (2.44-3.66)	13-14 (3.96-4.27)	15-18 (4.57-5.49)	19-25 (5.79-7.62)	26-50 (7.92-15.24)	51-75 (15.54-22.86)	76-100 (21.16-30.48)
0.5 (12.7)	—	A	B	B	C	D	D	E	F	G
1.0 (25.4)	A	A	B	C	C	D	E	E	F	G
1.5 (38.1)	A	B	C	D	D	E	E	F	F	H
2.0 (50.8)	A	B	C	E	E	E	E	F	G	H
2.5 (63.5)	A	B	C	E	E	E	F	F	G	H

Maximum Cable Length per Circuit in ft (m)

Breaker Size	120 Vac Cable			240 Vac Cable		
Start-up Temperature	+20 °F (-7 °C)	0 °F (-20 °C)	-20 °F (-30 °C)	+20 °F (-7 °C)	0 °F (-20 °C)	-20 °F (-30 °C)
15 Amp	125 (38.1)	115 (35.1)	100 (30.5)	250 (76.2)	225 (68.6)	205 (62.5)
20 Amp	170 (51.8)	150 (45.7)	135 (41.1)	335 (102.1)	300 (91.4)	270 (82.3)

Selection Chart Key

	Model #	# of Cables
A	PSR (Ⓢ)006	1 Cable
B	PSR (Ⓢ)012	1 Cable
C	PSR (Ⓢ)018	1 Cable
D	PSR (Ⓢ)024	1 Cable
E	PSR (Ⓢ)050	1 Cable
F	PSR (Ⓢ)075	1 Cable
G	PSR (Ⓢ)100	1 Cable
H	PSR (Ⓢ)100	2 Cable

Replace Ⓢ with voltage code: 1 for 120 Vac; 2 for 240 Vac.

Note: Allow an extra 1 ft (30.48 cm) of heating cable for each valve.

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Product Selection

Catalog Number	Description	Carton Quantity	Carton Weight lbs (kg)	UPC
PSR1006	6 ft (1.83 m) length, 30 Watts, 120 Vac	5	4 (1.8)	01362706907
PSR1012	12 ft (3.66 m) length, 60 Watts, 120 Vac	5	7 (3.2)	01362706908
PSR1018	18 ft (5.49 m) length, 90 Watts, 120 Vac	5	8 (3.6)	01362706913
PSR1024	24 ft (7.32 m) length, 120 Watts, 120 Vac	5	10 (4.5)	01362706909
PSR1050	50 ft (15.24 m) length, 250 Watts, 120 Vac	5	17 (7.7)	01362706910
PSR1075	75 ft (22.86 m) length, 375 Watts, 120 Vac	2	10 (4.5)	01362706911
PSR1100	100 ft (30.48 m) length, 500 Watts, 120 Vac	2	13 (5.9)	01362706912
PSR2006	6 ft (1.83 m) length, 30 Watts, 240 Vac	5	4 (1.8)	01362706867
PSR2012	12 ft (3.66 m) length, 60 Watts, 240 Vac	5	7 (3.2)	01362706868
PSR2018	18 ft (5.49 m) length, 90 Watts, 240 Vac	5	9 (4.1)	01362706873
PSR2024	24 ft (7.32 m) length, 120 Watts, 240 Vac	5	10 (4.5)	01362706869
PSR2050	50 ft (15.24 m) length, 250 Watts, 240 Vac	5	16 (7.3)	01362706870
PSR2075	75 ft (22.86 m) length, 375 Watts, 240 Vac	2	9 (4.1)	01362706871
PSR2100	100 ft (30.48 m) length, 500 Watts, 240 Vac	2	13 (5.9)	01362706872