



Pipe Freeze Protection Self-Regulating Heating Cable Product Specification

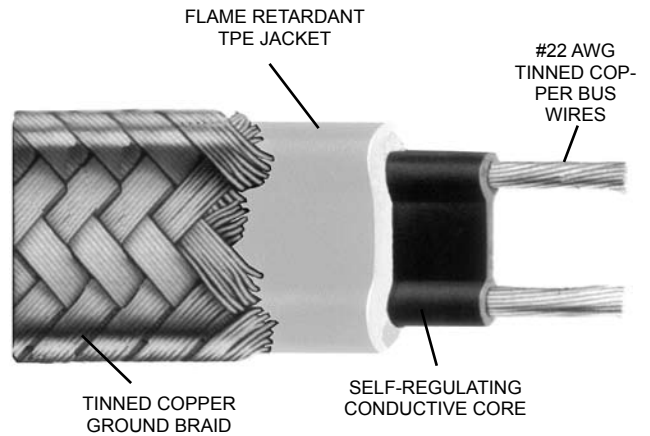
PRINCIPLE OF OPERATION

Freeze Free self-regulating heating cable automatically varies its heat output with changes in surrounding temperature. Since this cable regulates heat output with temperature, a thermostat may not be necessary for some freeze protection applications. Suitable for use on plastic or metal pipes in residential/manufactured housing and similar applications.

The Easy Heat Freeze Free cable is available with a power density of 3 Watts per foot. This power is specified at a surrounding temperature of 50°F (10°C). At other temperatures, of course, the cable power output will be considerably different.

Because of the self-regulating feature of this cable, it can be safely wrapped over itself (overlapped), if necessary, when installed on pipes, valves or flanges.

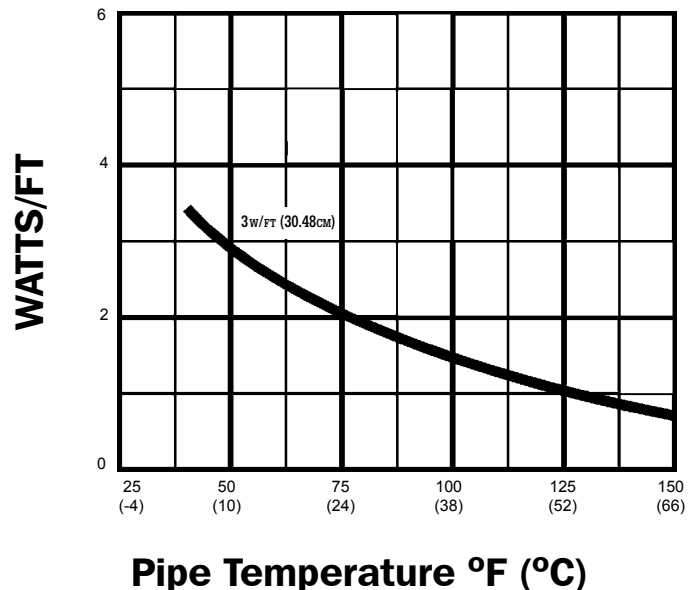
CONSTRUCTION DETAILS



PERFORMANCE INFORMATION

Voltage	120VAC
Power	3W/ft (30.48cm) @ 50°F (50°C)
Maximum Length	75 ft (22.86m)
Maximum Exposure Temperature	150°F(65.55°C)
Moisture Resistance	Cable/insulation kept dry
UL Listing	Mobile Homes
CSA Certification	Pipe Tracing
Pipe Materials	Metal or Plastic
Insulation required	½" (12.77mm) fiberglass or equivalent
Maintenance Required	Annual Inspection
Warranty	1 year limited

Nominal Power Output on Metal Pipe



CABLE APPLICATION

Freeze Free cable can be applied on water-filled metal or rigid plastic pipes up to 2" (50.80mm) in diameter. On smaller size pipes, the cable can usually be applied straight along the pipe. However, on longer pipes and especially at lower temperatures, the cable must be spiraled around

the pipe. This ensures adequate heat is applied to the pipes to keep them from freezing. The charts below indicate the application requirements for plastic and metal pipes.

Lowest Expected Temperature Table												
Diameter	Plastic Pipe						Metal Pipe					
	½" (12.70mm)	¾" (19.05mm)	1" (25.40mm)	1¼" (31.75mm)	1½" (38.10mm)	2" (50.80mm)	½" (12.70mm)	¾" (19.05mm)	1" (25.40mm)	1¼" (31.75mm)	1½" (38.10mm)	2" (50.80mm)
Heating Cable Required Per Foot of Pipe												
+20°F (-7°C)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)
0°F (-18°C)	1' (30.48cm)	1.1' (33.53cm)	1.3' (39.62cm)	1.6' (48.76cm)	1.8' (54.86cm)	2.1' (64.01cm)	1' (30.48cm)	1' (30.48cm)	1' (30.48cm)	1.1' (33.53cm)	1.2' (36.57cm)	1.5' (45.72cm)
-20°F (-29°C)	1.5' (45.72cm)	1.7' (51.82cm)	2' (60.96cm)	2.3' (70.10cm)	2.5' (76.20cm)	3' (91.44cm)	1' (30.48cm)	1.1' (33.53cm)	1.3' (39.62cm)	1.6' (48.76cm)	1.8' (54.86cm)	2.2' (67.05cm)
-40°F (-40°C)	2' (60.96cm)	2.3' (70.10cm)	2.7' (82.29cm)	3.2' (97.53cm)	3.6' (109.72cm)	4.3' (131.06cm)	1.3' (39.62cm)	1.5' (45.72cm)	1.8' (54.86cm)	2.1' (64.01cm)	2.4' (73.15cm)	2.8' (85.34cm)
-60°F (-51°C)	2.4' (73.15cm)	2.9' (88.39cm)	3.3' (100.58cm)	4.1' (124.96cm)	4.7' (143.25cm)	5.4' (164.59cm)	1.7' (51.82cm)	2' (60.96cm)	2.4' (73.15cm)	2.9' (88.39cm)	3.2' (97.53cm)	3.9' (118.87cm)

Shaded selections can run straight on pipe
 Unshaded selections must be spiraled evenly along the pipe

CABLE CONNECTION & ACCESSORIES

The Easy Heat Freeze Free connection Plug provides a fast, reliable and economical method of connecting the Freeze Free cable to a standard 120 VAC receptacle. Each plug is supplied with an end seal, reliable and easy to install. Installation tape, thermostats and pipe insulation are available accessories.

CABLE & ACCESSORIES

CABLE

- 2102 100' (30.48m) of Freeze Free cable
- 2302 300' (91.44m) of Freeze Free cable
- 2502 500' (152.40m) of Freeze Free cable

KITS

- 10805 5' (1.52m) of Freeze Free cable, plug & end seal
- 10815 15' (.91m) of Freeze Free cable, plug & end seal

CABLE CONTROL

Freeze Free cable can be connected directly to the power supply without requirement for thermostat control. The self-regulating effect of the cable reduces power consumption when the pipe does not require freeze protection. However, thermostatic control may be economical in many regions: the Easy Heat EH38 can be used to apply power to the cable only during freezing ambient conditions.

ACCESSORIES

- 10802 1 plug and end seal
- 10803 25 packs of plug & end seal
- HCA 30' (9.14m) of application/caution tape
- EH38 Thermostat for automatic operation
- GWI-25 ½" x 3" x 25' Insulation (12.7mm x 76.2mm x 7.62m)
- GWI-35 ½" x 3" x 35' Insulation (12.7mm x 76.2mm x 10.66m)
- GWI-65 ½" x 6" x 25' Insulation (12.7mm x 15.24cm x 7.62m)
- FFEC 5 End Seals