







Pipe Freeze Protection Self-Regulating Heating Cable Product Specification

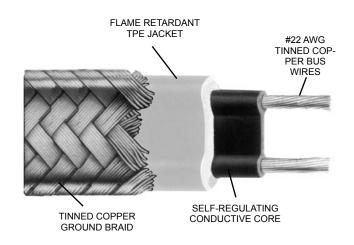
PRINCIPLE OF OPERATION

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
 150°F(65.55°C)

Moisture Resistance Cable/insulation

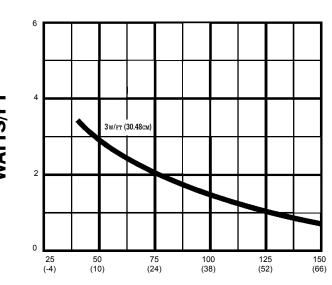
kept dry

UL ListingMobile HomesCSA CertificationPipe Tracing

Pipe Materials Metal or Plastic Insulation required 1/2" (12.77mm) fiberglass or equivalent

Maintenance RequiredAnnual InspectionWarranty1 year limited

Nominal Power Output on Metal Pipe



Pipe Temperature °F (°C)





40210-005 Rev 4

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



