



**EASYHEAT®**

## Pipe Freeze Protection Self-Regulating Heating Cable Product Specification

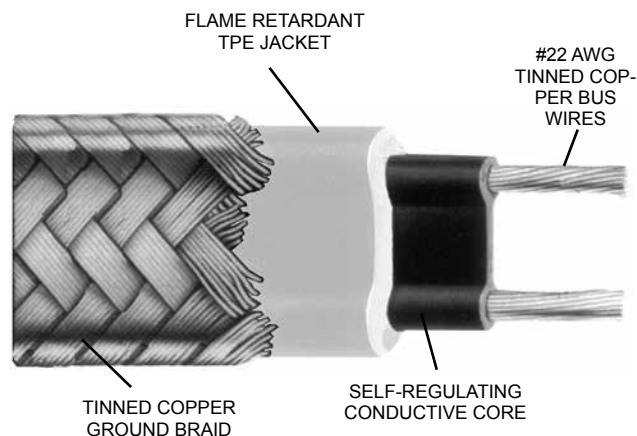
### PRINCIPLE OF OPERATION

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.

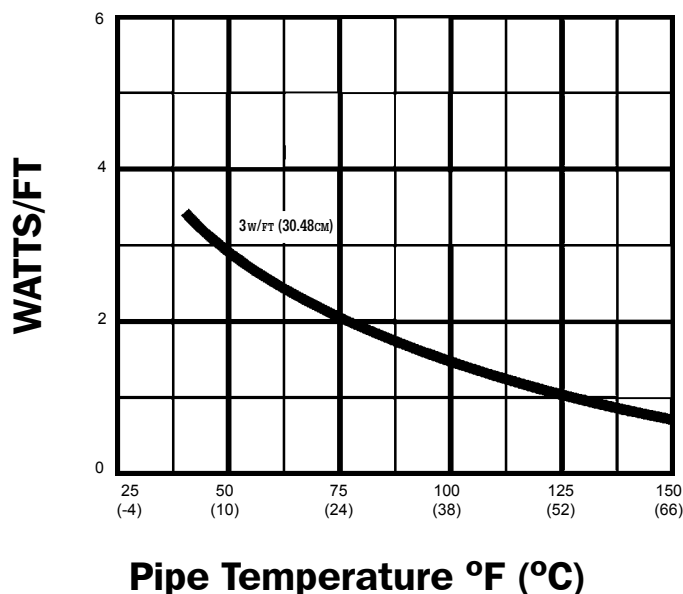
### CONSTRUCTION DETAILS



### PERFORMANCE INFORMATION

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| <b>Voltage</b>                      | 120VAC                                |
| <b>Power</b>                        | 3W/ft (30.48cm) @ 50°F (50°C)         |
| <b>Maximum Length</b>               | 75 ft (22.86m)                        |
| <b>Maximum Exposure Temperature</b> | 150°F (65.55°C)                       |
| <b>Moisture Resistance</b>          | Cable/insulation kept dry             |
| <b>UL Listing</b>                   | Mobile Homes                          |
| <b>CSA Certification</b>            | Pipe Tracing                          |
| <b>Pipe Materials</b>               | Metal or Plastic                      |
| <b>Insulation required</b>          | ½" (12.77mm) fiberglass or equivalent |
| <b>Maintenance Required</b>         | Annual Inspection                     |
| <b>Warranty</b>                     | 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      |
| FFEC  | 5 End Seals                             |