

# Product Datasheet



## Self-Regulating Heat Tracing

### Application

ReadyTrace™ is a self-regulating heater intended to protect small and medium diameter pipes from rupture and leakage caused by freezing conditions in residential and commercial applications.

ReadyTrace™ are also designed and approved for roof and gutter applications with direct exposure to harsh environmental conditions.

Due to its self-regulating nature, ReadyTrace™ will increase power when exposed to ice and snow. When the area has been cleared the power output will decrease to reduce energy consumption.

### Easy To Install

ReadyTrace™ is available in a range of predetermined lengths and comes with a lighted mechanical plug ready to plug into a GFCI protected circuit. Flexible materials and small cross-section provide an excellent bending radius for wrapping around complex geometries.

### Safe

ReadyTrace™ self-regulates to prevent overheating, even when overlapped. Trace heaters are certified for ordinary (non-classified) areas.

### Reliable

Built with proven and proprietary compounding, extrusion, and cross-linking technology, ReadyTrace™ allows for continuous operation and extended life expectancy.

### Ratings

Watt density.....20 W/m (6 W/ft) at 10°C (50°F)

Nominal supply voltage 1 .....100–120 Vac

Max maintain temperature.....60°C (140°F)

#### Max continuous exposure temperature

Power-off.....60°C (140°F)

Min install temperature.....-40°C (-40°F)

#### Minimum bend radius

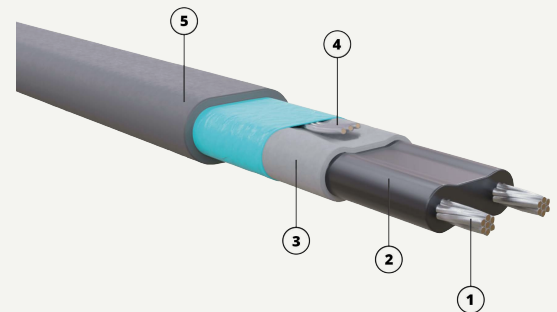
@ -15°C (59°F).....10 mm (3/8")

@ -40°C (-40°F).....32 mm (1-1/4")

### Basic Accessories

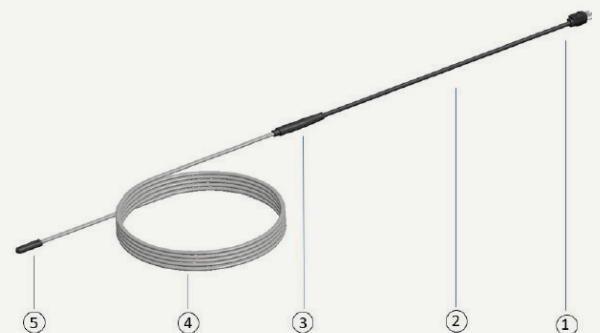
ReadyTrace™ offers accessories for rapid, trouble-free installation. All ReadyTrace™ heaters must be plugged into a GFCI protected circuit. If your circuit is not GFCI protected, ReadyTrace™ offers an inline GFCI option. ReadyTrace™ also offers mechanical fasteners to secure the heater to a roof, tape to secure ReadyTrace™ to a pipe, and temperature controllers to help control ReadyTrace™ Temperature. Please see the ReadyTrace™ Accessory Sheet for more details.

### Heater Construction



1. Nickel-plated copper bus wires
2. E-Beam cross-linked semiconductive heating matrix
3. E-Beam cross-linked dielectric insulation
4. Foil and Drain wire for grounding
5. Polyolefin overjacket provides additional protection to core, insulation, and braid where exposure to aqueous inorganic chemicals is expected.

### Assembly Construction



1. Lighted 5-15 or 5-20 NEMA plug.
2. 1.8m (6 ft) long 14 AWG Power Cord.
3. Thermoplast molded junction
4. 20 W/m (6 w/ft) standard lengths of heat trace.
5. Thermoplast molded endcap.

## Circuit Breaker Sizing And Type

ReadyTrace™ comes with a lighted plug that illuminates indicating that power reaching the heater. 5-15 plugs come standard on lengths 100 feet and less.

All ReadyTrace™ heaters must be plugged into a GFCI protected outlet. If a GFCI outlet is not available, ReadyTrace™ offers an in line GFCI accessory. See ReadyTrace™ accessory for details. ambient conditions are below -20C (-45F).

## Power Output Curves

ReadyTrace™ is self-regulating. At lower ambient temperatures it outputs more power. It also outputs more power at start-up than during steady state use. Longer heaters produce the most power and during start-up in very cold conditions this power output could be enough to trip a circuit breaker. Do not energize this heat trace when ambient conditions are below -20C (-4F).

| Length<br>(ft) | Min Watts<br>10C (50F) | On Pipe<br>Max Watts |          |            |             | On Roof<br>Max Watts |          |            |             |
|----------------|------------------------|----------------------|----------|------------|-------------|----------------------|----------|------------|-------------|
|                |                        | 10C (50F)            | 0C (32F) | -20C (-4F) | -40C (-40F) | 10C (50F)            | 0C (32F) | -20C (-4F) | -40C (-40F) |
| 6              | 36                     | 67                   | 75       | 92         | 107         | 87                   | 98       | 119        | 139         |
| 12             | 72                     | 134                  | 150      | 184        | 214         | 174                  | 195      | 239        | 279         |
| 18             | 108                    | 200                  | 226      | 276        | 322         | 261                  | 293      | 358        | 418         |
| 24             | 144                    | 267                  | 301      | 367        | 429         | 347                  | 391      | 478        | 557         |
| 36             | 216                    | 401                  | 451      | 551        | 643         | 521                  | 586      | 717        | 836         |
| 50             | 300                    | 557                  | 626      | 766        | 893         | 724                  | 814      | 995        | 1161        |
| 75             | 450                    | 835                  | 940      | 1148       | 1340        | 1086                 | 1221     | 1493       | 1742        |
| 100            | 750                    | 1114                 | 1253     | 1531       | 1786        | 1448                 | 1629     | 1991       | 2322        |

| Length<br>(ft) | Min Amps<br>10C (50F) | On Pipe<br>Max Amps |          |            |             | On Roof<br>Max Amps |          |            |             |
|----------------|-----------------------|---------------------|----------|------------|-------------|---------------------|----------|------------|-------------|
|                |                       | 10C (50F)           | 0C (32F) | -20C (-4F) | -40C (-40F) | 10C (50F)           | 0C (32F) | -20C (-4F) | -40C (-40F) |
| 6              | 0.3                   | 0.6                 | 0.6      | 0.8        | 0.9         | 0.7                 | 0.8      | 1.0        | 1.2         |
| 12             | 0.6                   | 1.1                 | 1.3      | 1.5        | 1.8         | 1.4                 | 1.6      | 2.0        | 2.3         |
| 18             | 0.9                   | 1.7                 | 1.9      | 2.3        | 2.7         | 2.2                 | 2.4      | 3.0        | 3.5         |
| 24             | 1.2                   | 2.2                 | 2.5      | 3.1        | 3.6         | 2.9                 | 3.3      | 4.0        | 4.6         |
| 36             | 1.8                   | 3.3                 | 3.8      | 4.6        | 5.4         | 4.3                 | 4.9      | 6.0        | 7.0         |
| 50             | 2.5                   | 4.6                 | 5.2      | 6.4        | 7.4         | 6.0                 | 6.8      | 8.3        | 9.7         |
| 75             | 3.8                   | 7.0                 | 7.8      | 9.6        | 11.2        | 9.0                 | 10.2     | 12.4       | 14.5        |
| 100            | 6.3                   | 9.3                 | 10.4     | 12.8       | 14.9        | 12.1                | 13.6     | 16.6       | 19.4        |



## RED-GFCI

Ground Fault Circuit Interrupter Outlet Adapter (GFCI) allows you to convert your standard power outlet into a GFCI protected outlet with our GFCI adapter. Intended for dry location use.



## RED-GFCI2

Ground Fault Circuit Interrupter Outlet Adapter (GFCI) allows you to convert your standard power outlet into a GFCI protected outlet with our GFCI adapter. Intended for outdoor use.



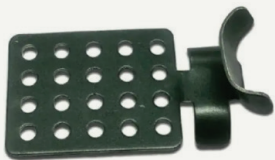
## RED-TC

Thermocube is a device which, when plugged into a standard 120V AC electrical outlet, will automatically turn power on and off to any device plugged into it. The Thermocube will automatically turn on power when air temperature reaches approximately 35°F (2°C) and will turn off the power when the temperature exceeds approximately 45°F (7°C). Thermocube is only intended for use in dry locations. A GFCI device is still required when using Thermocube.



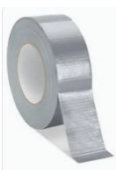
## GHT2002J

GHT2002J is an adjustable, thermostatic controller with a RTD sensor. GHT2002J can be used to set the on and off temperature of the ReadyTrace™. A GFCI device is required when using GHT2002J.



## RED-CRF

10 pack roof clips provides for a standard installation, ensure proper cable management.



## RED-20L

ReadyTrace™ Aluminum Installation Tape is your commercial solution for affixing heating cables to pipes, roofs, and other facility surfaces. Its aluminum backing provides excellent heat conduction, helping maximize your cable's efficiency in business environments. Easy to apply and built for commercial durability, this tape ensures a stable, effective setup that protects business operations all season long.



## **RED-CMC**

Cable mounting clips secure ReadyTrace™ heating cable to the roof utilizing screws and a waterproof cover material.



## **RED-DCH**

Downspout cable hanger secures heating cable at downspouts to remove strain at lip of downspout/gutter contact point.

## Warnings

**Ensure that the cable system is properly grounded** and safeguarded by GFCI (Ground Fault Circuit Interrupter) technology. Note that GFCIs can fail over time and should be tested per the manufacturer's requirements to ensure proper operation.

**Avoid using** heating cables, power cords, or plugs that are damaged. Promptly remove and replace them to prevent risks of fire, electric shock, or arcing.

**Risk of electric shock and fire.** Improper installation or damage to the cable system can lead to fire or electric shock, potentially causing severe personal injury or property damage. Only approved affixing methods detailed in the installation instructions are permitted. Use of unapproved mechanical attachments such as wire ties, hose clamps, staples etc. can damage the cable and are forbidden.

**Turn off all power circuits** before starting installation or maintenance.

**Clearly indicate** the presence of heating devices by posting caution signs or visible markings.

**Turn off the cable system** before the warm season when temperatures exceed 15C (60°F).

**Conduct a semi-annual inspection** of the cable system to check for damage and ensure it is still functioning properly.

**When installed on non-metallic piping,** a temperature controller is required to avoid damaging the pipe.

**Do not** install heating cable within pipe or in a continually immersed location.

**Do not** bury heating cable.

**Install endcap end of heater cable vertically** to prevent water leaking into cap and causing a short circuit.

**When using with extension cord** ensure the extension cord is rated for the maximum amp draw the heater might attain.

**Risk of fire.** Do not install on, under or near flammable materials. If covering with insulation, ensure insulation is not flammable and will not hold a flame.