

# Pipe Trace Solutions (RHSR Heat Cable)

Warmzone's self-regulating (RHSR), parallel heating pipe trace cable is designed for a variety of industrial applications and environments, including explosion-hazardous and nonhazardous areas up to a maximally admissible workplace temperature of +149°F (65°C). The versatile cable can be used for plastic or metal pipe freeze protection and flow maintenance of pipes, tanks, and valves. The cables are available on spools in lengths of 250, 500, and 1000 feet in 120, 208, 240, and 277 volts, and also in pre-assembled lengths in 120 volts.

## Features and Benefits

- Energy Efficient - Automatically varies its power output in response to pipe temperature changes.
- Easy to Install - Can be cut to any length required on site (up to max circuit length) so there's no wasted cable.
- Low Cost - Less installation cost than steam tracing; less maintenance expense and less downtime.
- Safe / Durable - Does not overheat or burn out, even when touching or overlapping.
- Versatile - Suitable for plastic or metal pipes, gutters and downspouts, and for use in non-hazardous, hazardous and corrosive environments.
- Quick Installation - The power connection, splice, tee and end seal kit will reduce installation time.
- Optional Outer Jacket - Makes the heating cable resistant to watery and inorganic chemicals and protects against abrasion and impact damage.
- 10-year warranty - NOT PRORATED
- Pre-assembled cable includes a 3-foot power cord and plug.




Warmzone self-regulating heat cable.



Cutaway view of Warmzone self-regulating heat trace cable.

## RHSR Technical Data

|   |  |
|---|--|
| Service voltage   | 110-120, 208-277 V   |
| Maximum maintain or continuous exposure temperature (power on)          | 149°F (65°C)   |
| Maximum intermittent exposure temperature 1,000 hours (power on or off) | -40° to 185°F (-40° to 85°C)   |
| Minimum installation temperature  | -40°F (-40°C)  |
| Protective braid resistance   | < 18.2Ω/km   |
| Bus wire gauge  | 16 AWG   |
| Approvals   | CSA; ordinary and hazardous  |
| Certifications  |  Class I, Div.2 Groups A,B,C,D<br>Class II, Div.2 Groups F,G<br>Class III |

Pipe Tracing

## Maximum Circuit Length at Circuit Breaker Size

| Cable                     | Startup Temp. | 120 V        |     |     |     | 240 V |     |     |     |
|---------------------------|---------------|--------------|-----|-----|-----|-------|-----|-----|-----|
|                           |               | Breaker Size |     |     |     | 15A   | 20A | 30A | 40A |
| RHSRR-6-1 and RHSRR-6-2   | 50°F (+10°C)  | 230          | 270 | 270 | 270 | 460   | 540 | 540 | 540 |
|                           | 32°F (0°C)    | 230          | 270 | 270 | 270 | 460   | 540 | 540 | 540 |
|                           | 14°F (-10°C)  | 180          | 210 | 270 | 270 | 360   | 420 | 540 | 540 |
|                           | 0°F (-18°C)   | 140          | 190 | 270 | 270 | 285   | 380 | 540 | 540 |
|                           | -20°F (-29°C) | 125          | 165 | 250 | 270 | 250   | 330 | 500 | 540 |
| RHSRR-8-1 and RHSRR-8-2   | 50°F (+10°C)  | 150          | 200 | 210 | 210 | 300   | 400 | 420 | 420 |
|                           | 32°F (0°C)    | 150          | 200 | 210 | 210 | 300   | 400 | 420 | 420 |
|                           | 14°F (-10°C)  | 140          | 150 | 205 | 210 | 280   | 300 | 410 | 420 |
|                           | 0°F (-18°C)   | 100          | 130 | 200 | 210 | 200   | 265 | 400 | 420 |
|                           | -20°F (-29°C) | 85           | 115 | 175 | 210 | 175   | 235 | 350 | 420 |
| RHSRR-10-1 and RHSRR-10-2 | 50°F (+10°C)  | 120          | 160 | 180 | 180 | 240   | 315 | 360 | 360 |
|                           | 32°F (0°C)    | 105          | 140 | 170 | 180 | 210   | 280 | 340 | 360 |
|                           | 14°F (-10°C)  | 95           | 125 | 165 | 180 | 190   | 250 | 330 | 360 |
|                           | 0°F (-18°C)   | 80           | 110 | 160 | 180 | 160   | 215 | 325 | 360 |
|                           | -20°F (-29°C) | 70           | 95  | 140 | 180 | 145   | 190 | 285 | 360 |
| RHSRR-12-1 and RHSRR-12-2 | 50°F (+10°C)  | 80           | 140 | 150 | 150 | 160   | 270 | 310 | 310 |
|                           | 32°F (0°C)    | 75           | 130 | 145 | 150 | 150   | 260 | 290 | 310 |
|                           | 14°F (-10°C)  | 70           | 115 | 142 | 150 | 140   | 230 | 285 | 310 |
|                           | 0°F (-18°C)   | 60           | 80  | 140 | 150 | 120   | 160 | 280 | 310 |
|                           | -20°F (-29°C) | 50           | 65  | 110 | 150 | 105   | 140 | 225 | 310 |
|                           | -40°F (-40°C) | 45           | 60  | 90  | 140 | 90    | 125 | 190 | 280 |

\* Lengths may vary. Please contact a Warmzone representative for more information.