



# SR TRACE®

## Self-Regulating Heating Cable Product Information

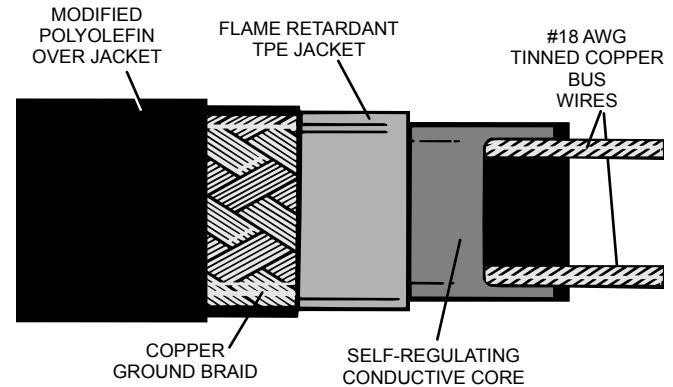
### PRINCIPLE OF OPERATION

SR Trace self-regulating heating cables automatically vary their heat output with changes in surrounding temperature. Since these cables regulate their heat output with temperature, a thermostat may not be necessary for some freeze protection applications.

The Easy Heat SR Trace is available with power densities of 3, 5 and 8 watts per foot. This wattage is specified at a surrounding temperature of 50°F. 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 wrapped over itself (overlapped), if necessary, when installed on pipes, valves or flanges.

### CONSTRUCTION DETAILS



## Easy Heat SR Trace Specifications/Applications Information

### Performance and Rating Data

Catalog Number	Service Voltage	Power Rating Watts/Ft @ 50°F (10°C)	Maximum Length Single Run
SR31J	120	3	235FT (67M)
SR32J	240	3	650FT (163M)
SR51J	120	5	200FT (54M)
SR52J	240	5	540FT (140M)
SR81J	120	8	150FT (43M)
SR82J	240	8	425FT (106M)

### Voltage Adjustment Table

Cable	‡ Power Rating Multiplier						
	190 VAC	200 VAC	208 VAC	220 VAC	230 VAC	240 VAC	277 VAC
SR32J	0.58	0.65	0.71	0.81	0.90	1.00	1.34
SR52J	0.70	0.76	0.80	0.88	0.94	1.00	1.20
SR82J	0.80	0.84	0.87	0.92	0.96	1.00	1.12

‡ Power ratings are for dry cable conditions only. For roof and gutter (wet) cable applications, contact Easy Heat for further information.

### Circuit Breaker Selection

Voltage	Cable Power Watts/Ft	Start-up Temp	Maximum Total Length vs. circuit Breaker Size		
			15A	20A	30A
120	3	-40°F (-40°C)	170FT (51M)	226FT (69M)	340FT (103M)
		32°F (0°C)	254FT (77M)	338FT (103M)	507FT (154M)
		50°F (10°C)	289FT (88M)	386FT (117M)	579FT (176M)
	5	-40°F (-40°C)	123FT (37M)	163FT (49M)	245FT (74M)
		32°F (0°C)	182FT (55M)	242FT (73M)	363FT (110M)
		50°F (10°C)	206FT (62M)	275FT (83M)	413FT (125M)
8	-40°F (-40°C)	86FT (26M)	115FT (35M)	173FT (52M)	
	32°F (0°C)	127FT (38M)	170FT (51M)	254FT (77M)	
	50°F (10°C)	144FT (62M)	192FT (58M)	289FT (88M)	
240	3	-40°F (-40°C)	340FT (103M)	453FT (138M)	679FT (207M)
		32°F (0°C)	507FT (154M)	676FT (206M)	1015FT (309M)
		50°F (10°C)	579FT (176M)	772FT (235M)	1157FT (352M)
	5	-40°F (-40°C)	245FT (74M)	327FT (99M)	490FT (149M)
		32°F (0°C)	363FT (110M)	484FT (147M)	726FT (221M)
		50°F (10°C)	413FT (125M)	550FT (167M)	825FT (251M)
8	-40°F (-40°C)	173FT (52M)	231FT (70M)	346FT (105M)	
	32°F (0°C)	254FT (77M)	339FT (103M)	509FT (155M)	
	50°F (10°C)	289FT (88M)	385FT (117M)	577FT (175M)	

### SR Trace notes

- 1) Maximum maintenance temperature, all cables: 150°F (66°C).
- 2) Maximum intermittent exposure temperature, cables: 185°F (85°C).

Cable with overjacket is UL Listed for freeze protection and temperature maintenance of metal and non-metallic pipe and vessel surfaces in dry or damp ordinary (non-hazardous) locations, and Roof De-icing & Snow Melting.



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## Connection & Accessory Kits

Product	Description
<b>SRST PT</b>	UL Listed and CSA Approved In-line Splice Connection Kit. Provides heat shrink tubing based in-line splice connection of two or three heating cables. Junction box is not required. Each kit performs two sets of splices.
<b>SRES PT RG</b>	UL Listed and CSA Approved End Seal Kit. Provides materials necessary to perform a moisture proof end seal of the heating cable circuit. Each kit contains 5 end seals
<b>SRP PT RG</b>	CSA Certified Power Connection Kit. Provides materials necessary to perform a watertight power connection into a customer supplied 1/2" NPT knockout junction box. Also provides heat-shrinkable moisture proof end seal of the heating cable circuit. One SRP Kit is required per cable to J-box connection
<b>SRSRG RG</b>	UL Listed and CSA Approved Roof and Gutter In-line Splice Kit. Provides materials necessary to perform a splice of two roof and gutter heating cables. Each kit contains one splice.
<b>ZH-C RG</b>	Roof Clips and Spacers. Used to attach heating cable to roof and also to maintain cable spacing in gutters and down spouts. Each kit consists of 50 roof clips or 25 cable spacers.
<b>DSH RG</b>	Down Spout Hanger. Used to support heating cable where it enters and exits a down spout. Each kit contains two hangers.
<b>PT</b> Pipe Tracing Applications	<b>RG</b> Roof & Gutter De-icing Applications

### Easy Heat SR Trace General Notes

- 1) Circuit breakers are sized per article 427-4 of NEC and CSA/CEC 62-114.
- 2) To operate 240 volt cables at 208, 220 or 270 volts, use the circuit adjustment factors shown in the Voltage Adjustment Tables.
- 3) When using two (2) or more heating cables of different wattage ratings in parallel on a single circuit breaker, use the 15A column amperage of 15 amps, divide it by the maximum footage to arrive at an amps/foot figure for each cable. Then calculate circuit breaker size for the combined loads. These amps/foot factors include the sizing factor in (1) above.
- 4) The use of ground fault protection equipment for some heating cable applications is required by NEC and CSA/CEC. It is the customer's responsibility to ensure compliance of the complete installation with all appropriate electrical, building, etc., codes.

### LIMITED WARRANTY AND LIABILITY

Easy Heat warrants that if there are any defects in material or workmanship in any heating cable or accessory during the first year after the date of purchase. We will provide new products to replace any defective items, or we will refund the purchase price paid for the accessory or cable, not including any labor or other installation costs. As an alternate, we may elect to repair the cable or accessory at our factory with all shipping and other removal costs borne by the purchaser.

We further warrant that any services performed for the Buyer hereunder will be performed in a good and skillful manner, based on our understanding of pertinent technical data as of the date of performance of such services. Easy Heat's sole responsibility and liability in the event of any defect, error, omission, or failure in the services rendered hereunder shall be to provide corrected services of the type provided for herein, designed to correct such defect, error, omissions, or failure, and in no event shall the Easy Heat's liability with respect to such warranty exceed the amount received by it from the Buyer on account of such services.

Our obligation to provide corrected services, new products, refund the purchase price, or perform the repair described above is conditioned upon (a) the installation of the accessory or cable conforming to the specifications set forth in our installation instructions and (b) the accessory or cable not having been damaged by mechanical or electrical activities unrelated to the operation of the accessory or cable.

**A refund of your purchase price, provision of replacement products, repair of the accessory or cable or provision of corrected services as described above, shall be your sole and exclusive remedy for a breach of this warranty. THESE ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY EASY HEAT WITH RESPECT TO THE GOODS AND SERVICES AND ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO EASY HEAT IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND WHETHER OR NOT EASY HEAT'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY EASY HEAT FOR YOUR USE OR PURPOSE.**

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence, unauthorized modification or alteration, use beyond rate capacity, or improper installation, maintenance or application. To the extent that you or your agents have supplied specifications, information, representation of operating conditions or other data to Easy Heat in the selection or design of the Goods and the preparation of Easy Heat's quotation, and in the event that actual operating conditions or other conditions differ from those represented by you, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

If within thirty (30) days after your discovery of any warranty defects within the warranty period, you notify Easy Heat thereof in writing, Easy Heat shall, at its option, repair, correct or replace F.O.B. point of manufacture, or refund the purchase price for, that portion of the Goods found by Easy Heat to be defective. Failure by you to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of your claim for such defects. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days from the date of shipment of the repaired or replaced goods, whichever is longer.

**This limited warranty does not cover any costs relating to the repair or replacement of any accessory or cable at the installation site.** Our accessories and cables are not easily accessible. A failed accessory or cable usually cannot be easily repaired. Replacement of a failed accessory or cable will require that the materials under which it is installed be removed to permit replacement of the accessory or cable. **We will not reimburse any costs relating to the repair or replacement of any accessory or cable at the installation site.**

**IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL EASY HEAT'S LIABILITY TO YOU AND/OR YOUR CUSTOMERS EXCEED THE PRICE PAID BY YOU FOR THE SPECIFIC GOODS PROVIDED BY EASY HEAT GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. YOU AGREE THAT WE SHALL NOT BE LIABLE TO YOU OR YOUR CUSTOMERS FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL OR PUNITIVE DAMAGES. No agent, employee or representative of ours has authority to bind us to any affirmation, representation or warranty concerning the goods sold unless such affirmation, representation or warranty is specifically incorporated by written agreement.**

To obtain new products, arrange repair of existing product, or a refund under this warranty, please contact Easy Heat with a description of the defect and proof of purchase at the address noted herein.

### PRODUCT INSTALLATION

All Easy Heat SR Trace self-regulating heating cables must be installed with appropriate connection kits. These connection kits are available from Easy Heat and contain detailed instructions for connecting the cable to the power supply and/or other heating cables. Agency approvals (UL or CSA) are only valid when appropriate kits are used to install the heating cable for the appropriate heating application.

**⚠ WARNING! FAILURE TO INSTALL EASY HEAT SR TRACE WITH APPROPRIATE CONNECTION KITS MAY RESULT IN FIRE, ELECTRIC SHOCK, PIPE FREEZE-UP OR OTHER DANGEROUS CONDITIONS.**



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